YAMAHA

READ THIS MANUAL CAREFULLY!
It contains important safety information.

# OWNER'S MANUAL

# Raptor 700R

## YFM70RSPX

**⚠ WARNING**

This ATV should not be ridden by anyone under 16 years of age.

LIT-11626-21-12

1S3-28199-15

EBU17091

**⚠ WARNING**

**The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.**

YAMAHA LIT-CALIF-65-01

EBU17170

# INTRODUCTION

EBU17270

Congratulations on your purchase of the Yamaha YFM70RSPX. This ATV represents the result of many years of Yamaha experience in the production of fine sporting, touring, and pace-setting racing machines. With the purchase of this Yamaha, you can now appreciate the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

This manual will provide you with a good basic understanding of the features and operation of this ATV. **This manual includes important safety information. It provides information about special techniques and skills necessary to ride the ATV.** It also includes basic maintenance and inspection procedures. If you have any questions regarding the operation or maintenance of your ATV, please consult a Yamaha dealer.

**AN IMPORTANT SAFETY MESSAGE:**

- READ THIS MANUAL TOGETHER WITH TIPS FOR THE ATV RIDER CAREFULLY AND COMPLETELY BEFORE OPERATING YOUR ATV. MAKE SURE YOU UNDERSTAND ALL INSTRUCTIONS.
- PAY CLOSE ATTENTION TO THE WARNING AND CAUTION LABELS ON THE ATV.
- NEVER OPERATE AN ATV WITHOUT PROPER TRAINING OR INSTRUCTION. FREE TRAINING IS AVAILABLE TO ANYONE WHO BUYS A NEW ATV. CALL 1-800-887-2887 FOR MORE INFORMATION.
- THIS ATV, AND ANY OTHER ATV OVER 90 cc, SHOULD NOT BE RIDDEN BY ANYONE UNDER 16 YEARS OF AGE.

EBU17330

# IMPORTANT MANUAL INFORMATION

EBU17341

FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.
Particularly important information is distinguished in this manual by the following notations:

| | |
|---|---|
| ⚠ | **The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!** |
| **⚠ WARNING** | **Failure to follow WARNING instructions could result in severe injury or death to the ATV operator, a bystander, or a person inspecting or repairing the ATV.** |
| **CAUTION:** | **A CAUTION indicates special precautions that must be taken to avoid damage to the ATV.** |
| **NOTE:** | A NOTE provides key information to make procedures easier or clearer. |

* Product and specifications are subject to change without notice.

EBU17350

# IMPORTANT NOTICE

EBU17360

Welcome to the Yamaha world of motor sports!
This ATV is designed and manufactured for OFF-ROAD use only. It is illegal and unsafe to operate this ATV on any public street, road or highway.
This ATV complies with all applicable OFF-ROAD noise level and spark arrester laws and regulations in effect at the time of manufacture.
Please check your local riding laws and regulations before operating this ATV.

EBU17381

AFFIX DEALER

LABEL HERE

**YFM70RSPX**
**OWNER'S MANUAL**
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**1st edition, May 2007**
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**Printed in Japan.**
**P/N LIT-11626-21-12**

EWB00010

**⚠ WARNING**

**Indicates a potential hazard that could result in serious injury or death.**

EBU17420

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# SAFETY INFORMATION



EBU26661

**AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE.**

An ATV handles differently from other vehicles, including motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers such as turning and riding on hills or over obstacles, if you fail to take proper precautions.

SEVERE INJURY OR DEATH can result if you do not follow these instructions:

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper training or instruction. **Take a Training Course.** Beginners should receive training from a certified instructor. Contact an authorized ATV dealer or call 1-800-887-2887 to find out about the training courses nearest you.
- Always follow the age recommendation:
  – A child under 16 years old should never operate an ATV with engine size greater than 90 cc.
- Never allow a child under age 16 to operate an ATV without adult supervision, and never allow continued use of an ATV by a child if he or she does not have the abilities to operate it safely.
- Never carry a passenger on an ATV.
- Always avoid operating an ATV on any paved surfaces, including sidewalks, driveways, parking lots and streets.
- Never operate an ATV on any public street, road or highway, even a dirt or gravel one.
- Never operate an ATV without wearing an approved motorcycle helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or a jacket, and long pants.
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate at speeds too fast for your skills or the riding conditions. Always go at a speed

that is proper for the terrain, visibility, operating conditions, and your experience.

- Never attempt wheelies, jumps, or other stunts.
- Always inspect your ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep both hands on the handlebars and both feet on the footboards of the ATV during operation.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.
- Never operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.
- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds and never turn at excessive speeds.
- Never operate the ATV on hills too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open the throttle suddenly or make sudden gear changes. Never go over the top of a hill at high speed.
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle that would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.
- Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stall-

ing, use the proper gear and maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in this manual.

- Always check for obstacles before operating in a new area.
- Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful when skidding or sliding. Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain. On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Never operate an ATV in fast flowing water or in water deeper than that recommended in this manual. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.
- Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly.
- Always use the size and type of tires specified in this manual.
- Always maintain proper tire pressure as described in this manual.
- Never modify an ATV through improper installation or use of accessories.
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

**FOR MORE INFORMATION ABOUT ATV SAFETY,** call the Consumer Products Safety Commission at 1-800-638-2772, or the ATV Distributor's Safety Hotline at 1-800-852-5344.

EWB02320

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improper handling of gasoline.**

**WHAT CAN HAPPEN**

**Gasoline can catch fire and you could be burned.**

**HOW TO AVOID THE HAZARD**

**Always turn off the engine when refueling.**

**Do not refuel right after the engine has been running and is still very hot.**

**Do not spill gasoline on the engine or exhaust pipe/muffler when refueling.**

**Never refuel while smoking, or in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers.**

**When transporting the ATV in another vehicle, be sure it is kept upright. Otherwise, fuel may leak out of the fuel tank.**

**WHAT CAN HAPPEN**

**Gasoline is poisonous and can cause injuries.**

**HOW TO AVOID THE HAZARD**

**If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, seek medical help immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.**

EWB00030

**⚠ WARNING**

**POTENTIAL HAZARD**

**Starting or running the engine in a closed area.**

**WHAT CAN HAPPEN**

**Exhaust fumes are poisonous and may cause loss of consciousness and death within a short time.**

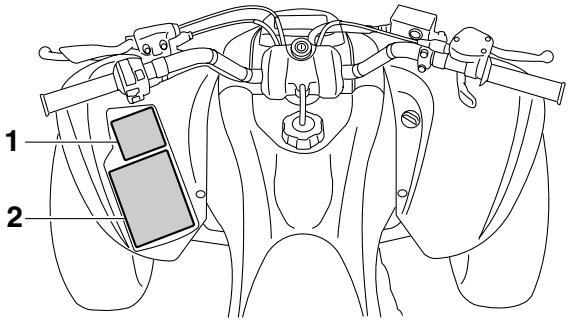
**HOW TO AVOID THE HAZARD**

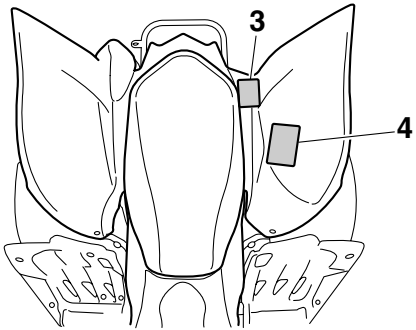
**Always operate your ATV in an area with adequate ventilation.**

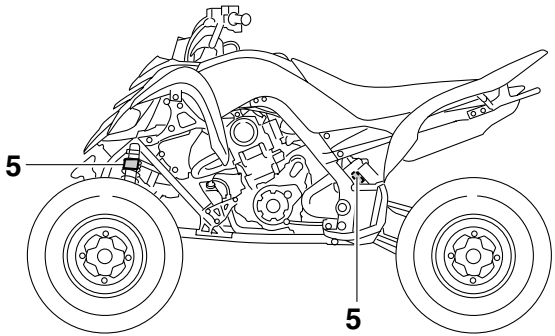
EBU17660

# LOCATION OF THE WARNING AND SPECIFICATION LABELS





Read and understand all of the labels on your ATV. These labels contain important information for safe and proper operation.

Never remove any labels from your ATV. If a label becomes difficult to read or comes off, request a replacement label from your Yamaha dealer.

1

## ⚠ WARNING

Operating this ATV if you are under the age of **16** increases your chance of severe injury or death.

**NEVER** operate this ATV if you are under age **16**.

5FE-21697-01

2

## ⚠ WARNING

**Improper ATV use can result in SEVERE INJURY or DEATH.**

ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR

NEVER USE ON PUBLIC ROADS

NEVER CARRY PASSENGERS

NEVER USE WITH DRUGS OR ALCOHOL

**NEVER operate :**

- **without proper training or instruction.**
- **at speeds too fast for your skills or the conditions.**
- **on public roads-a collision can occur with another vehicle.**
- **with a passenger-passengers affect balance and steering and increase risk of losing control.**

**ALWAYS :**

- **use proper riding techniques to avoid vehicle overturns on hills and rough terrain and it turns.**
- **avoid paved surfaces-pavement may seriously affect handling and control.**

**LOCATE AND READ OWNER'S MANUAL.**
**FOLLOW ALL INSTRUCTIONS AND WARNINGS.**
**(For replacement manual, call 1-800-532-1558)**

5FE-21568-01

3

**⚠ WARNING**

**NEVER ride as a passenger.**

**Passengers can cause a loss of control, resulting in SEVERE INJURY or DEATH.**

5FE-2151H-01

4

**⚠ WARNING**

**IMPROPER TIRE PRESSURE OR OVERLOADING CAN CAUSE LOSS OF CONTROL.**
**LOSS OF CONTROL CAN RESULT IN SEVERE INJURY OR DEATH.**

**OPERATING TIRE PRESSURE:** Set with tires cold

- Recommended : FRONT : 27.5 kPa, {0.275 kgf/cm$^2$} 4.0 psi
  REAR : 27.5 kPa, {0.275 kgf/cm$^2$} 4.0 psi
- Minimum : FRONT : 24.5 kPa, {0.245 kgf/cm$^2$} 3.5 psi
  REAR : 24.5 kPa, {0.245 kgf/cm$^2$} 3.5 psi
- Never set tire pressure below minimum.
  It could cause the tire to dislodge from the rim.

**LOADING**

- Maximum Vehicle Load : 100 kg, (220 lbs).
  Includes weight of operator, cargo and accessories.

5LP-21696-00

5

**⚠ WARNING**

This unit contains high pressure nitrogen gas.
Mishandling can cause explosion.

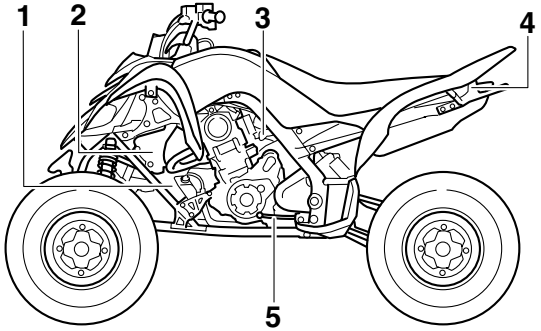
- Read owner's manual for instructions.
- Do not incinerate, puncture or open.

4AA-22259-80

# DESCRIPTION

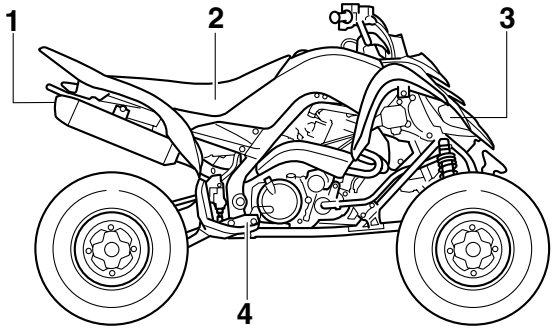


EBU17690
## Left view




1. Engine oil tank
2. Coolant reservoir
3. Idle adjusting screw
4. Tail/brake light
5. Shift pedal

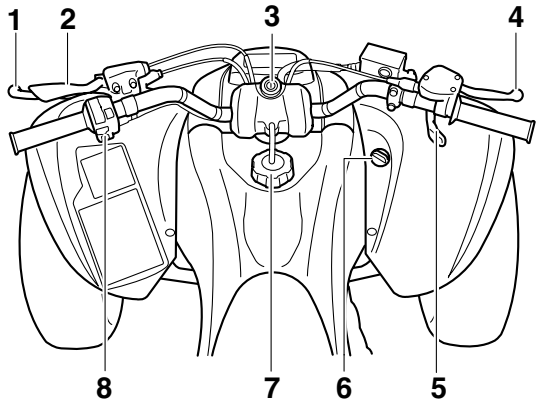
EBU17700
## Right view




1. Spark arrester
2. Seat
3. Headlight
4. Brake pedal

EBU17712
# Controls and instruments






1. Clutch lever
2. Parking brake lever
3. Main switch
4. Brake lever
5. Throttle lever
6. Reverse knob
7. Fuel tank cap
8. Handlebar switches

**NOTE:**
The ATV you have purchased may differ slightly from the figures shown in this manual.

EBU17720

# INSTRUMENT AND CONTROL FUNCTIONS

EWB00010

**⚠ WARNING**

**Indicates a potential hazard that could result in serious injury or death.**



EBU17760

## Main switch

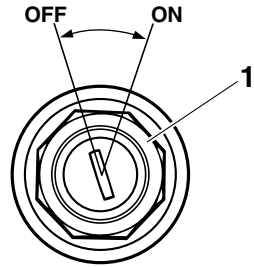
The positions of the main switch are as follows:

**ON**

All electrical systems are supplied with power. The headlights and taillight come on when the light switch is on, and the engine can be started. The key cannot be removed.

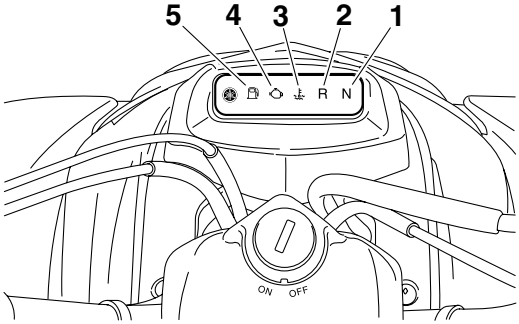
**OFF**

All electrical systems are off. The key can be removed.




1. Main switch

EBU26692
# Indicator lights and warning lights




1. Neutral indicator light “N”
2. Reverse indicator light “R”
3. Coolant temperature warning light “ ”
4. Engine trouble warning light “ ”
5. Fuel level warning light “ ”

EBU17830
### Reverse indicator light “R”
This indicator light comes on when the transmission is in the reverse position.

EBU17860
### Neutral indicator light “N”
This indicator light comes on when the transmission is in the neutral position.

EBU26700
### Coolant temperature warning light “ ”
This warning light comes on when the engine overheats. When this occurs during operation, stop the engine as soon as it is safe to do so and allow it to cool down for about 10 minutes.
The electrical circuit of the warning light can be checked by turning the key to “ON”. If the warning light does not come on, and then go off, have a Yamaha dealer check the electrical circuit.

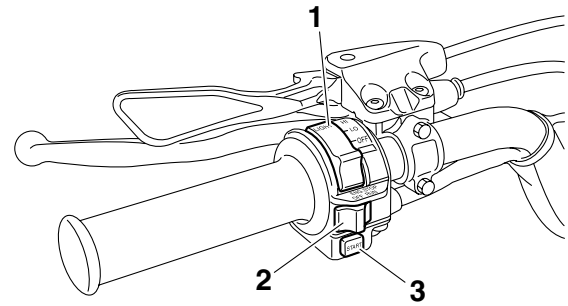
ECB00010
**CAUTION:**
- **The engine may overheat if the ATV is overloaded. In this case, reduce the load to specification.**
- **Start the engine after making sure that the warning light is out. Continuous use while the warning light is on may cause damage to the engine.**

EBU26710
### Fuel level warning light “ ”
This warning light comes on when the fuel level drops below approximately 2.6 L (0.69 US gal) (0.57 Imp.gal). When this occurs, refuel as soon as

possible.
The electrical circuit of the warning light can be checked by setting the engine stop switch to “RUN” and turning the key to “ON”. If the warning light does not come on, and then go off, have a Yamaha dealer check the electrical circuit.

EBU26720
**Engine trouble warning light “ ”**
This warning light comes on or flashes when an electrical circuit monitoring the engine is defective. When this occurs, have a Yamaha dealer check the self-diagnosis system.
The electrical circuit of the warning light can be checked by turning the key to “ON”. If the warning light does not come on, then go off, have a Yamaha dealer check the electrical circuit.

EBU18061
## Handlebar switches




1. Light switch “LIGHTS”
2. Engine stop switch “ENG. STOP”
3. Start switch “START”

EBU18070
**Engine stop switch “ENG. STOP”**
Set this switch to “RUN” before starting the engine. The engine stop switch controls the ignition and stops the engine when it is running. Use this switch to stop the engine in an emergency situation. The engine will not start or run when this switch is set to “OFF”.

EBU18090

### Start switch "START"

Push this switch to crank the engine with the starter.

ECB00050

**CAUTION:**

**See the starting instructions on page 6-1 prior to starting the engine.**

4

EBU18140

### Light switch "LIGHTS"

Set this switch to "LO" to turn on the low beams and the taillight. Set the switch to "HI" to turn on the high beams and the taillight. Set the switch to "OFF" to turn off all the lights.

ECB00040

**CAUTION:**

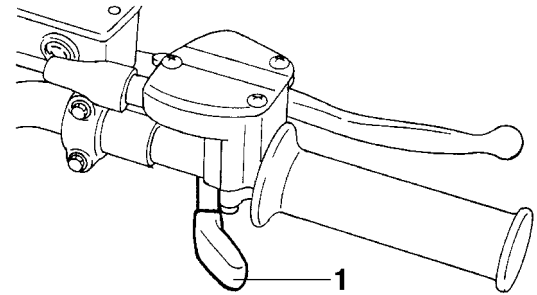
**Do not use the headlights with the engine turned off for an extended period of time, otherwise the battery may discharge to the point that the starter motor will not operate properly. If this should happen, remove the battery and recharge it.**

EBU18270

## Throttle lever

Once the engine is running, movement of the throttle lever will increase the engine speed.

Regulate the speed of the ATV by varying the throttle position. Because the throttle is spring-loaded, the ATV will decelerate, and the engine will return to an idle any time the hand is removed from the throttle lever.




1. Throttle lever

Before starting the engine, check the throttle to be sure it is operating smoothly. Make sure it returns to the idle position as soon as the lever is released.

EWB00200

**⚠ WARNING**

**POTENTIAL HAZARD**

**Malfunction of throttle.**

**WHAT CAN HAPPEN**

**The throttle could be hard to operate, making it difficult to speed up or slow down when you need to. This could cause an accident.**

**HOW TO AVOID THE HAZARD**

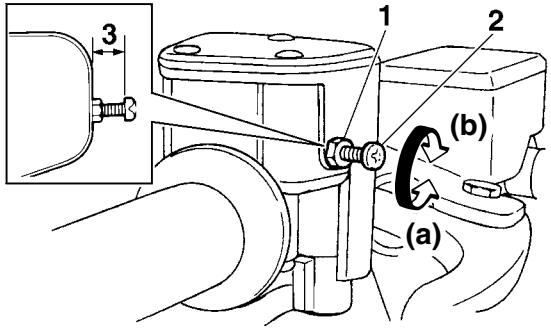
**Check the operation of the throttle lever before you start the engine. If it does not work smoothly, check for the cause. Correct the problem before riding the ATV. Consult a Yamaha dealer if you can't find or solve the problem yourself.**

EBU18311

## Speed limiter

Your ATV was delivered with an adjustable speed limiter. The speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to the maximum.

1. Loosen the locknut.
2. To increase the maximum engine power available and the maximum speed of the ATV, turn the adjusting screw in direction (a). To decrease the maximum engine power available and the maximum speed of the ATV, turn the adjusting screw in direction (b).




1. Locknut
2. Adjusting screw
3. No more than 12 mm (0.47 in)

3. Tighten the locknut.

EWB00190

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improper adjustment of the speed limiter and throttle.**

**WHAT CAN HAPPEN**

**The throttle cable could be damaged. Improper throttle operation could result. You could lose control, have an accident or be injured.**

**HOW TO AVOID THE HAZARD**

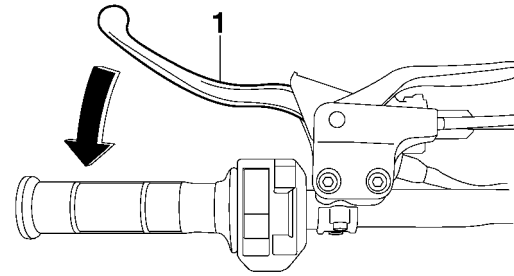
**Do not turn the adjusting screw out more than 12 mm (0.47 in). Always make sure the throttle lever free play is adjusted to 2.0–4.0 mm (0.08–0.16 in). (See page 8-24.)**



EBU18382

## Clutch lever

The clutch lever is located on the left handlebar and the ignition circuit cut-off system is incorporated in the clutch lever holder. To disengage the clutch, pull the clutch lever toward the handlebar grip. To engage the clutch, release the clutch lever. The clutch lever should be pulled rapidly and released slowly for smooth clutch operation. (See page 6-1 for a description of the ignition circuit cut-off system.)

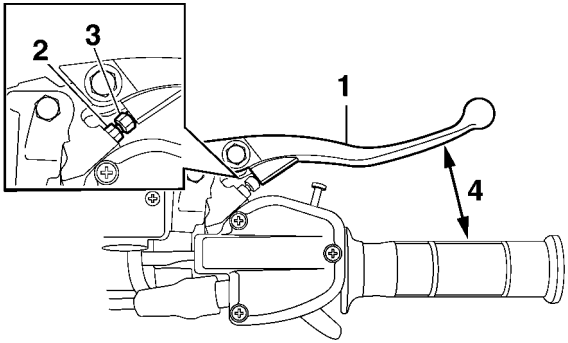



1. Clutch lever

EBU18411

## Brake lever

The brake lever is located at the right handlebar grip. To apply the front brake, pull the brake lever toward the handlebar grip.

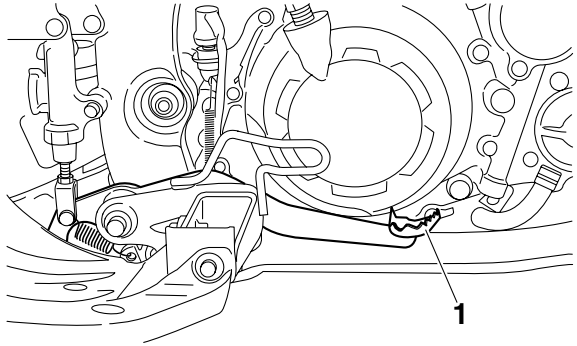



1. Brake lever
2. Locknut
3. Brake lever position adjusting bolt
4. Distance between brake lever and handlebar grip

EBU18432

## Brake pedal

The brake pedal is located on the right side of the ATV. To apply the rear brake, push down on the brake pedal.

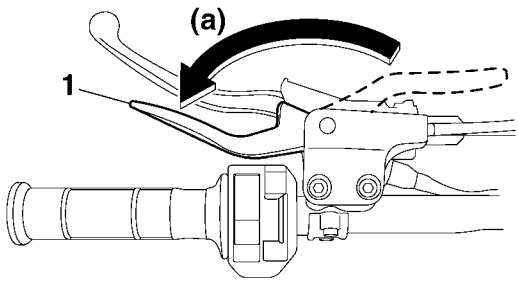



1. Brake pedal

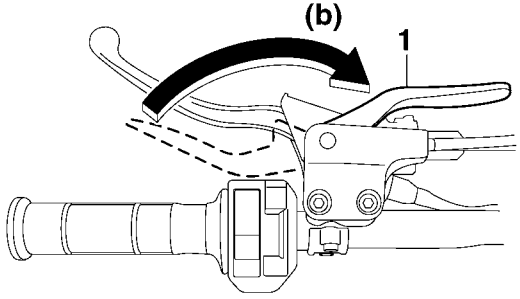
EBU18510

## Parking brake lever

Use the parking brake before starting the engine or parking the ATV, especially on a slope. To apply the parking brake, move the parking brake lever in direction (a). To release the parking brake, move the parking brake lever in direction (b).




1. Parking brake lever (locked position)




1. Parking brake lever (unlocked position)

EWB00170

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improper use of the parking brake.**

**WHAT CAN HAPPEN**

**The ATV could start moving unexpectedly if the parking brake is not applied before starting the engine. This could cause loss of control or a collision.**

**The brake could overheat if you ride the ATV without releasing the parking brake. You could lose braking performance which could cause an accident. You could also wear out the brakes prematurely.**

**HOW TO AVOID THE HAZARD**

**Always set the parking brake before starting the engine.**

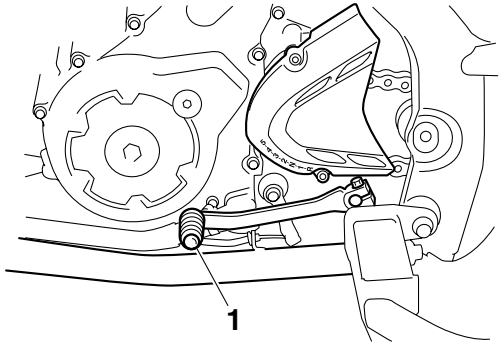
**Always be sure you have released the parking brake before you begin to ride.**

EBU18540

## Shift pedal

This ATV is equipped with a constant-mesh 5-speed forward and 1-speed reverse transmission. The shift pedal is located on the left side of the engine and is used in combination with the clutch

when shifting.

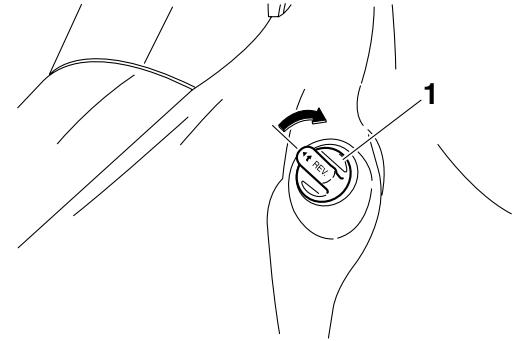



1. Shift pedal

EBU18641

## Reverse knob “REV”

The reverse knob is used to shift into reverse. See the “Operating the reverse knob and driving in reverse” section on page 6-2 before operating this ATV in reverse.

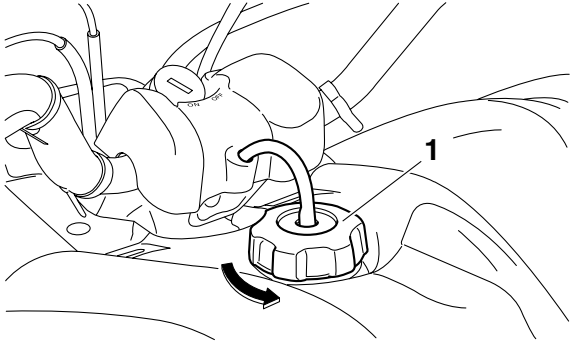



1. Reverse knob “REV”

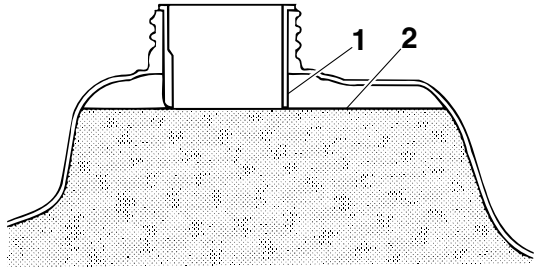
EBU18720

## Fuel tank cap

Remove the fuel tank cap by turning it counterclockwise.




1. Fuel tank cap




1. Filler tube
2. Fuel level

EBU18730

## Fuel

Make sure that there is sufficient fuel in the tank. Fill the fuel tank to the bottom of the filler tube as shown.

Recommended fuel:
UNLEADED GASOLINE ONLY
Fuel tank capacity:
11.0 L (2.91 US gal) (2.42 Imp.gal)
Fuel reserve amount:
2.6 L (0.69 US gal) (0.57 Imp.gal)

ECB00070

**CAUTION:**

**Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston**

**rings, as well as to the exhaust system.**

Your Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number [(R+M)/2] of 86 or higher, or a research octane number of 91 or higher. If knocking or pinging occurs, use a different brand of gasoline or premium unleaded fuel. Unleaded fuel will give you longer spark plug life and reduced maintenance cost.

**Gasohol**

There are two types of gasohol: gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if the ethanol content does not exceed 10%. Gasohol containing methanol is not recommended by Yamaha because it can cause damage to the fuel system or ATV performance problems.

EWB00270

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improper care when refueling.**

**WHAT CAN HAPPEN**

**Fuel can spill, which can cause a fire and severe injury.**

**Fuel expands when it heats up. If the fuel tank is overfilled, fuel could spill out due to heat from the engine or the sun.**

**HOW TO AVOID THE HAZARD**

**Do not overfill the fuel tank. Careful not to spill fuel, especially on the engine or exhaust pipe. Wipe up any spilled fuel immediately. Be sure the fuel tank cap is closed securely. Do not refuel right after the engine has been running and is still very hot.**

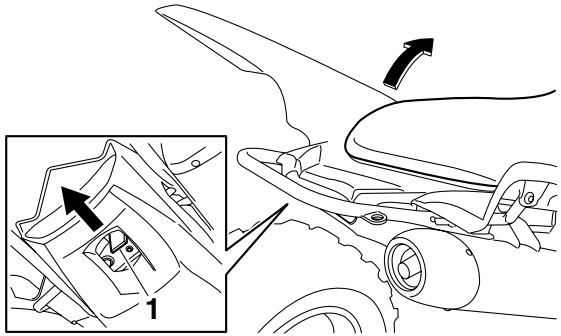
4

EBU18890

## Seat

**To remove the seat**

Insert your hand between the rear of the seat and the rear fender, pull the seat lock lever upward and pull up the seat at the rear.



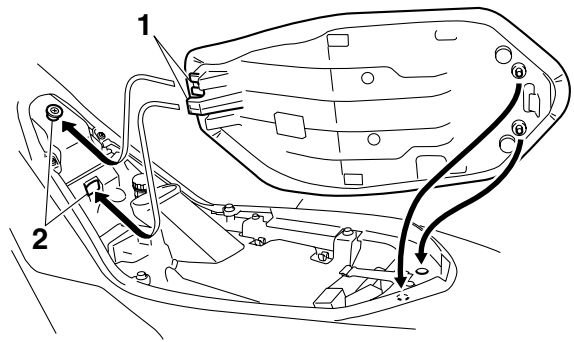

1. Seat lock lever

**To install the seat**

Insert the projections on the front of the seat into the seat holders and push down on the seat at the rear.

**NOTE:**

Make sure that the seat is securely fitted.




1. Projection
2. Seat holder

EBU27892

## Adjusting the front shock absorber assemblies

These shock absorber assemblies are equipped with a spring preload adjusting nut, a rebound damping force adjusting screw, with a compression damping force adjusting bolt (for fast compression damping), and a compression damping force adjusting screw (for slow compression damping).

EWB00360

**⚠ WARNING**

**POTENTIAL HAZARD**

**These shock absorber assemblies contain highly pressurized nitrogen gas.**

**WHAT CAN HAPPEN**

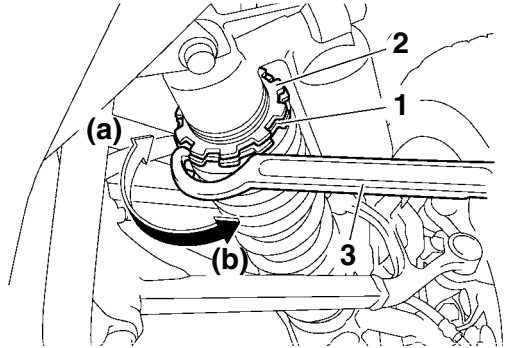
**The shock absorber assemblies could explode, causing injury or property damage. Cylinder damage could also result in poor handling which could cause an accident.**

**HOW TO AVOID THE HAZARD**

- **Do not tamper with or attempt to open the cylinder assemblies.**
- **Do not subject the shock absorber assemblies to an open flame or other high heat.**
- **Do not deform or damage the cylinders in any way.**
- **Do not dispose of a damaged or worn out shock absorber assembly yourself. Take the shock absorber assembly to a Yamaha dealer for any service.**

**Spring preload**

1. Loosen the locknut.
2. Turn the adjusting nut in direction (a) to increase the spring preload and thereby harden the suspension, and in direction (b) to decrease the spring preload and thereby soften the suspension.




1. Spring preload adjusting nut
2. Locknut
3. Special wrench

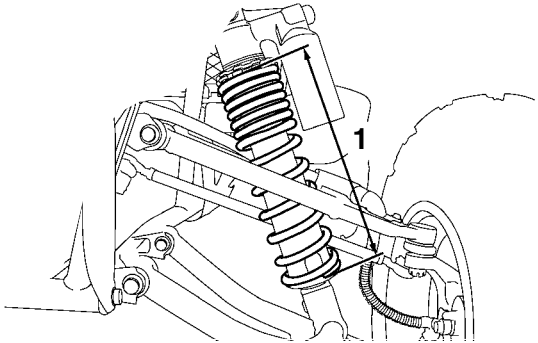
**NOTE:**

- A special wrench can be obtained at a Yamaha dealer to make this adjustment.
- The spring preload setting is determined by measuring distance A, shown in the illustration. The shorter distance A is, the higher the spring preload; the longer distance A is, the lower the spring preload. With each complete turn of the

adjusting nut, distance A is changed by 1.5 mm (0.06 in).

Spring preload setting:
Minimum (hard):
Distance A = 246.5 mm (9.7 in)
Standard:
Distance A = 255 mm (10.0 in)
Maximum (soft):
Distance A = 261.5 mm (10.3 in)






1. Distance A

3. Tighten the locknut to the specified torque.

Tightening torque:
Locknut:
30 Nm (3.0 m·kgf, 22 ft·lbf)

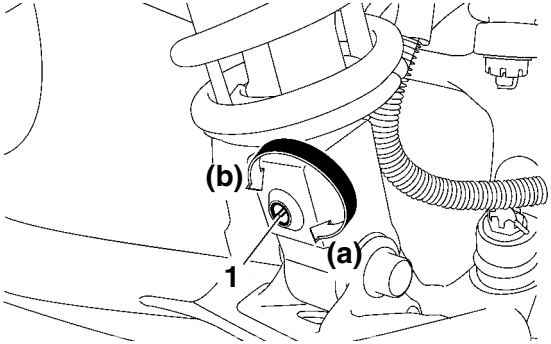
ECB00080

**CAUTION:**

**Always tighten the locknut against the adjusting nut, and then tighten it to the specified torque.**

**Rebound damping force**

Turn the adjusting screw in direction (a) to increase the rebound damping force and thereby harden the damping, and in direction (b) to decrease the rebound damping force and thereby soften the damping.




1. Rebound damping force adjusting screw

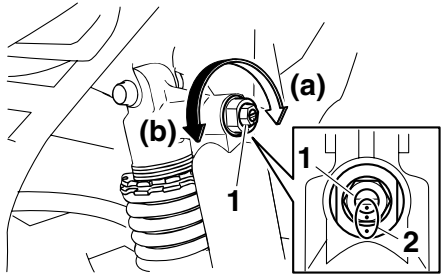
Rebound damping setting:
Minimum (soft):
20 click(s) in direction (b)*
Standard:
12 click(s) in direction (b)*
Maximum (hard):
1 click(s) in direction (b)*
* With the adjusting screw fully turned in direction (a)

## Compression damping force

Compression damping force (for fast compression damping)

1. To increase the compression damping force and thereby harden the compression damping, turn the adjusting bolt in direction (a). To decrease the compression damping force and thereby soften the compression damping, turn the adjusting bolt in direction (b).






1. Compression damping force adjusting bolt (for fast compression damping)
2. Position indicator marks

Compression damping setting (for fast compression damping):
Minimum (soft):
Adjusting bolt 3 turn(s) out from the fully turned in position
Standard:
Adjusting bolt 1 1/4 turn(s) out from the fully turned in position
Maximum (hard):
Adjusting bolt fully turned in

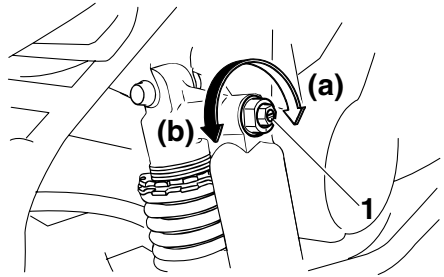


**NOTE:**

Make sure that the position indicator marks are aligned when the shock absorber assembly is set to the standard setting.

Compression damping force (for slow compression damping)

1. To increase the compression damping force and thereby harden the compression damping, turn the adjusting screw in direction (a). To decrease the compression damping force and thereby soften the compression damping, turn the adjusting screw in direction (b).




1. Compression damping force adjusting screw (for slow compression damping)

Compression damping setting (for slow compression damping):
Minimum (soft):
20 click(s) in direction (b)*
Standard:
9 click(s) in direction (b)*
Maximum (hard):
1 click(s) in direction (b)*
* With the adjusting screw fully turned in direction (a)

ECB00090

**CAUTION:**

**Never turn an adjusting mechanism beyond**

**the minimum and maximum settings.**

**NOTE:**

Although the total number of clicks of a damping force adjusting mechanism may not exactly match the above specifications due to small differences in production, the actual number of clicks always represents the entire adjusting range. To obtain a precise adjustment, it would be advisable to check the number of clicks of each damping force adjusting mechanism and to modify the specifications as necessary.

EWB00370

**⚠ WARNING**

**POTENTIAL HAZARD**

**Suspension components become hot during operation.**

**WHAT CAN HAPPEN**

**You could be burned.**

**HOW TO AVOID THE HAZARD**

**Never touch the compression damping force adjusting screw, rebound damping force adjusting screw or oil reservoir with your bare hand or skin until suspension components have cooled.**

EWB00350

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improper shock absorber assembly adjustment.**

**WHAT CAN HAPPEN**

**Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.**

**HOW TO AVOID THE HAZARD**

**Always adjust the shock absorber assemblies on the left and right side to the same setting.**



EBU27950

## Adjusting the rear shock absorber assembly

This shock absorber assembly is equipped with a spring preload adjusting nut, a rebound damping force adjusting screw, with a compression damping force adjusting bolt (for fast compression damping), and a compression damping force adjusting screw (for slow compression damping).

EWB00380

**⚠ WARNING**

**POTENTIAL HAZARD**

**This shock absorber assembly contains highly pressurized nitrogen gas.**

**WHAT CAN HAPPEN**

**The shock absorber assembly could explode, causing injury or property damage. Cylinder damage could also result in poor handling which could cause an accident.**

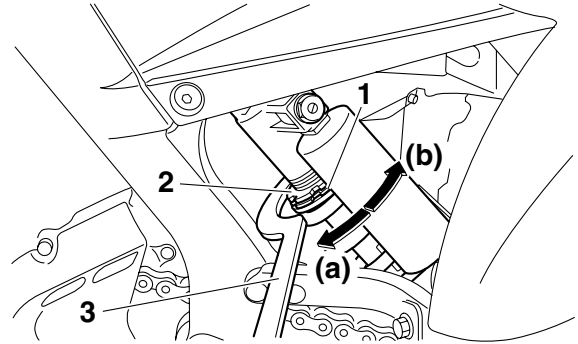
**HOW TO AVOID THE HAZARD**

- **Do not tamper with or attempt to open the cylinder assembly.**
- **Do not subject the shock absorber assembly to an open flame or other high heat.**
- **Do not deform or damage the cylinder in any way.**
- **Do not dispose of a damaged or worn out shock absorber assembly yourself. Take the shock absorber assembly to a Yamaha dealer for any service.**

4

### Spring preload

1. Loosen the locknut.
2. Turn the adjusting nut in direction (a) to increase the spring preload and thereby harden the suspension, and in direction (b) to decrease the spring preload and thereby soften the suspension.



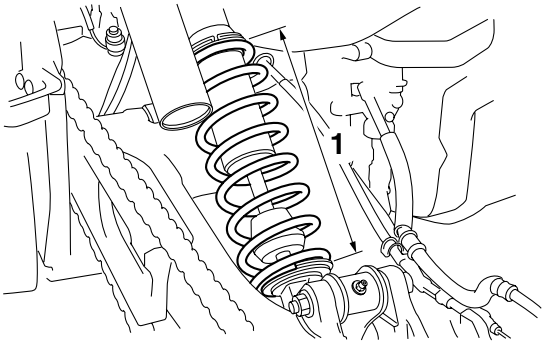

1. Spring preload adjusting nut
2. Locknut
3. Special wrench

**NOTE:**

- A special wrench can be obtained at a Yamaha dealer to make this adjustment.
- The spring preload setting is determined by measuring distance A, shown in the illustration. The shorter distance A is, the higher the spring preload; the longer distance A is, the lower the spring preload. With each complete turn of the

adjusting nut, distance A is changed by 1.5 mm (0.06 in).

Spring preload setting:
Minimum (hard):
Distance A = 228 mm (8.98 in)
Standard:
Distance A = 233 mm (9.17 in)
Maximum (soft):
Distance A = 243 mm (9.57 in)




1. Distance A

3. Tighten the locknut to the specified torque.

Tightening torque:
Locknut:
42 Nm (4.2 m·kgf, 30 ft·lbf)

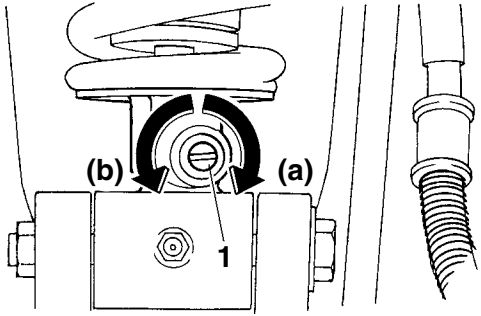
ECB00080

**CAUTION:**

**Always tighten the locknut against the adjusting nut, and then tighten it to the specified torque.**

**Rebound damping force**

Turn the adjusting screw in direction (a) to increase the rebound damping force and thereby harden the damping, and in direction (b) to decrease the rebound damping force and thereby soften the damping.



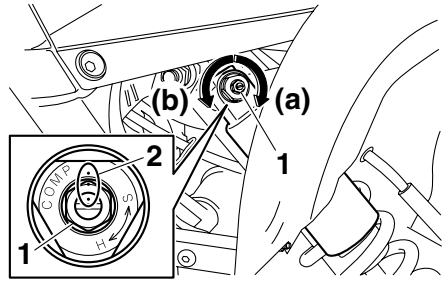

1. Rebound damping force adjusting screw

Rebound damping setting:
Minimum (soft):
20 click(s) in direction (b)*
Standard:
12 click(s) in direction (b)*
Maximum (hard):
3 click(s) in direction (b)*
* With the adjusting screw fully turned in direction (a)

**Compression damping force**

Compression damping force (for fast compression damping)

1. To increase the compression damping force and thereby harden the compression damping, turn the adjusting bolt in direction (a). To decrease the compression damping force and thereby soften the compression damping, turn the adjusting bolt in direction (b).




1. Compression damping force adjusting bolt (for fast compression damping)
2. Position indicator marks

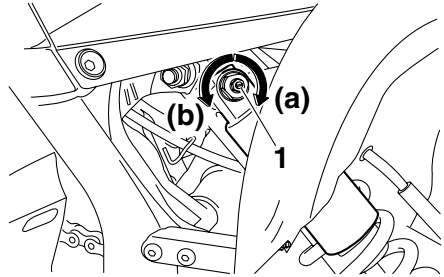
Compression damping setting (for fast compression damping):
Minimum (soft):
Adjusting bolt 4 turn(s) out from the fully turned in position
Standard:
Adjusting bolt 2 turn(s) out from the fully turned in position
Maximum (hard):
Adjusting bolt fully turned in

**NOTE:**

Make sure that the position indicator marks are aligned when the shock absorber assembly is set to the standard setting.

Compression damping force (for slow compression damping)

1. To increase the compression damping force and thereby harden the compression damping, turn the adjusting screw in direction (a). To decrease the compression damping force and thereby soften the compression damping, turn the adjusting screw in direction (b).




1. Compression damping force adjusting screw (for slow compression damping)

Compression damping setting (for slow compression damping):
Minimum (soft):
20 click(s) in direction (b)*
Standard:
11 click(s) in direction (b)*
Maximum (hard):
1 click(s) in direction (b)*
* With the adjusting screw fully turned in direction (a)

ECB00090

**CAUTION:**

**Never turn an adjusting mechanism beyond**

**the minimum and maximum settings.**

**NOTE:**

Although the total number of clicks of a damping force adjusting mechanism may not exactly match the above specifications due to small differences in production, the actual number of clicks always represents the entire adjusting range. To obtain a precise adjustment, it would be advisable to check the number of clicks of each damping force adjusting mechanism and to modify the specifications as necessary.



EWB00370

**⚠ WARNING**

**POTENTIAL HAZARD**

**Suspension components become hot during operation.**

**WHAT CAN HAPPEN**

**You could be burned.**

**HOW TO AVOID THE HAZARD**

**Never touch the compression damping force adjusting screw, rebound damping force adjusting screw or oil reservoir with your bare hand or skin until suspension components have cooled.**

EWB00010

**⚠ WARNING**

**Indicates a potential hazard that could result in serious injury or death.**

EBU19200

# PRE-OPERATION CHECKS

EBU19212

## Pre-operation check list

Before operating this ATV, be sure to check the items listed in the following table.

EWB00470

**⚠ WARNING**

**POTENTIAL HAZARD**
**Failure to inspect the ATV before operating.**
**Failure to properly maintain the ATV.**
**WHAT CAN HAPPEN**
**Increases the possibility of an accident or equipment damage.**
**HOW TO AVOID THE HAZARD**
**Always inspect your ATV each time you use it to make sure it is in safe operating condition.**
**Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.**



**NOTE:**

The maintenance of some items in the table has to be performed by a Yamaha dealer. Refer to the periodic maintenance charts on page 8-3 to determine which service should be performed by a Yamaha dealer.

| ITEM | ROUTINE | PAGE |
|---|---|---|
| **Fuel** | • Check fuel level in fuel tank, and add recommended fuel if necessary.<br>• Check fuel line for leakage. Correct if necessary. | 4-10, 5-4 |
| **Engine oil** | • Check oil level in engine, and add recommended oil to specified level if necessary.<br>• Check ATV for oil leakage. Correct if necessary. | 5-4, 8-9 |
| **Coolant** | • Check coolant level in reservoir, and add recommended coolant to specified level if necessary.<br>• Check cooling system for leakage. Correct if necessary. | 5-4, 8-14 |
| **Front brake** | • Check operation. If soft or spongy, have Yamaha dealer bleed hydraulic system.<br>• Check brake pads for wear, and replace if necessary.<br>• Check brake fluid level in reservoir, and add recommended brake fluid to specified level if necessary.<br>• Check hydraulic system for leakage. Correct if necessary. | 5-5, 8-25, 8-26, 8-28 |
| **Rear brake** | • Check operation. If soft or spongy, have Yamaha dealer bleed hydraulic system.<br>• Check brake pads for wear, and replace if necessary.<br>• Check brake fluid level in reservoir, and add recommended brake fluid to specified level if necessary.<br>• Check hydraulic system for leakage. Correct if necessary. | 5-5, 8-25, 8-26, 8-29 |
| **Clutch** | • Check operation, and correct if necessary.<br>• Lubricate cable if necessary.<br>• Check lever free play, and adjust if necessary. | 8-32 |
| **Throttle lever** | • Make sure that operation is smooth. Lubricate cable and lever housing if necessary.<br>• Check cable free play, and adjust if necessary. | 5-5, 8-24 |
| **Control cables** | • Make sure that operation is smooth. Lubricate if necessary. | 8-36 |
| **Drive chain** | • Check chain slack, and adjust if necessary.<br>• Check chain condition. Lubricate if necessary. | 5-6, 8-33, 8-35 |

| ITEM | ROUTINE | PAGE |
|---|---|---|
| **Wheels and tires** | • Check wheel condition, and replace if damaged.<br>• Check tire condition and tread depth. Replace if necessary.<br>• Check air pressure. Correct if necessary. | 5-6, 5-7, 5-8 |
| **Brake and shift pedals** | • Make sure that operation is smooth. Lubricate pedal pivoting points if necessary. | 8-37 |
| **Brake and clutch levers** | • Make sure that operation is smooth. Lubricate lever pivoting points if necessary. | 8-36 |
| **Chassis fasteners** | • Make sure that all nuts, bolts and screws are properly tightened. | 5-9 |
| **Instruments, lights and switches** | • Check operation, and correct if necessary. | 5-9 |

EBU19530
## Fuel

Make sure that there is sufficient fuel in the tank. (See page 4-10.)

EWB00500

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improper care when refueling.**

**WHAT CAN HAPPEN**

**Fuel can spill, which can cause a fire and severe injury.**

**Fuel expands when it heats up. If the fuel tank is overfilled, fuel could spill out due to heat from the engine or the sun.**

**HOW TO AVOID THE HAZARD**

**Do not overfill the fuel tank. Be careful not to spill fuel, especially on the engine or exhaust pipe. Wipe up any spilled fuel immediately. Be sure the fuel tank cap is closed securely. Do not refuel right after the engine has been running and is still very hot.**

5

EBU19560
## Engine oil

Make sure that the engine oil is at the specified level. Add oil as necessary. (See page 8-9.)

EBU19620
## Coolant

Make sure that the coolant is at the specified level. Add coolant as necessary. (See page 8-14.)

**NOTE:**

The coolant level must be checked on a cold engine since the level varies with engine temperature.

EWB00490

**⚠ WARNING**

**POTENTIAL HAZARD**

**Removing the radiator cap when the engine and radiator are still hot.**

**WHAT CAN HAPPEN**

**You could be burned by hot fluid and steam blown out under pressure.**

**HOW TO AVOID THE HAZARD**

**Wait for the engine to cool before removing the radiator cap. Always use a thick rag over the cap. Allow any remaining pressure to escape before completely removing the cap.**

EBU19700
# Front and rear brakes

**Brake lever and brake pedal**
- Check that there is no free play in the brake lever. If there is free play, have a Yamaha dealer check the brake system.
- Check for correct brake pedal height. (See page 8-29.) If the pedal height is incorrect, have a Yamaha dealer adjust it.
- Check the operation of the lever and pedal. They should move smoothly and there should be a firm feeling when the brakes are applied. If not, have a Yamaha dealer check the brake system.

**Brake fluid level**
Check the brake fluid level. Add fluid if necessary. (See page 8-26.)

Recommended brake fluid:
DOT 4

**Brake fluid leakage**
Check to see if any brake fluid is leaking out of the pipe joints or brake fluid reservoirs. Apply the brakes firmly for one minute. If there is any leakage, have a Yamaha dealer check the brake system.

**Brake operation**
Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, check the brake pads for wear. (See page 8-25.)

EWB00540

**⚠ WARNING**

**POTENTIAL HAZARD**
**Riding with improperly operating brakes.**
**WHAT CAN HAPPEN**
**You could lose braking ability, which could lead to an accident.**
**HOW TO AVOID THE HAZARD**
**Always check the brakes at the start of every ride. Do not ride the ATV if you find any problem with the brakes. If a problem cannot be corrected by the adjustment procedures provided in this manual, have a Yamaha dealer check for the cause.**

EBU19761
# Throttle lever
Check the operation of the throttle lever. It must open smoothly and spring back to the idle position when released. Have a Yamaha dealer correct if

necessary.

EBU19770
## Drive chain

Check the condition of the drive chain and check the drive chain slack. Lubricate and adjust the drive chain as necessary. (See page 8-33.)

EBU19781
## Tires



EWB00561

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV with improper tires, or with improper or uneven tire pressure.**

**WHAT CAN HAPPEN**

**Use of improper tires on this ATV, or operation of this ATV with improper or uneven tire pressure, may cause loss of control, increasing your risk of accident.**

**HOW TO AVOID THE HAZARD**

- **The tires listed below have been approved by Yamaha Motor Co., Ltd. for this model. Other tire combinations are not recommended.**

**Front:**
**Manufacturer/model:**
**DUNLOP/KT341 Radial**
**Size:**
**AT21 x 7-10**
**Type:**
**Tubeless**

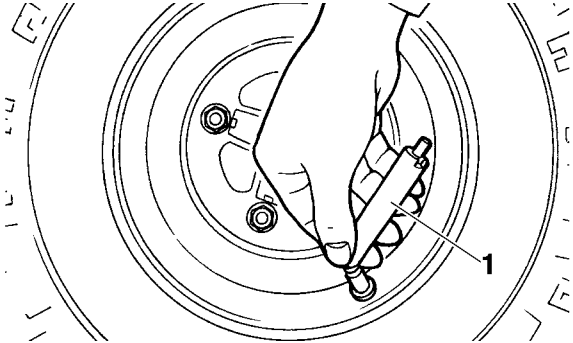
**Rear:**
**Manufacturer/model:**
**DUNLOP/KT345 Radial**
**Size:**
**AT20 x 10-9**
**Type:**
**Tubeless**

**● The tires should be set to the recommended pressure:**
**Recommended tire pressure:**
**Front:**
**27.5 kPa (4.0 psi) (0.275 kgf/cm$^2$)**
**Rear:**
**27.5 kPa (4.0 psi) (0.275 kgf/cm$^2$)**
**• Check and adjust tire pressures when the tires are cold.**
**• Tire pressures must be equal on both sides.**
**● Tire pressure below the minimum specified could cause the tire to dislodge from the rim under severe riding conditions.**
**Minimum tire pressure:**
**Front:**
**24.5 kPa (3.5 psi) (0.245 kgf/cm$^2$)**
**Rear:**
**24.5 kPa (3.5 psi) (0.245 kgf/cm$^2$)**
**● Use no more than the following pressures when seating the tire beads.**
**● Maximum tire seating pressure:**
**Front:**
**250 kPa (36 psi) (2.5 kgf/cm$^2$)**
**Rear:**
**250 kPa (36 psi) (2.5 kgf/cm$^2$)**
**Higher pressures and fast inflation may cause a tire to burst. Inflate the tires very slowly and carefully.**

EBU19820
## Measuring the tire pressure

Use the low-pressure tire gauge.

**NOTE:**
The low-pressure tire gauge is included as standard equipment. Make two measurements of the tire pressure and use the second reading. Dust or dirt in the gauge could cause the first reading to be incorrect.




1. Low-pressure tire gauge

Set the tire pressure when the tires are cold. Set the tire pressures to the following specifications:

Recommended pressure:
- Front
  - 27.5 kPa (4.0 psi) (0.275 kgf/cm$^2$)
- Rear
  - 27.5 kPa (4.0 psi) (0.275 kgf/cm$^2$)

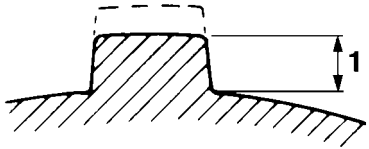
Minimum:
- Front
  - 24.5 kPa (3.5 psi) (0.245 kgf/cm$^2$)
- Rear
  - 24.5 kPa (3.5 psi) (0.245 kgf/cm$^2$)

Maximum:
- Front
  - 30.5 kPa (4.4 psi) (0.305 kgf/cm$^2$)
- Rear
  - 30.5 kPa (4.4 psi) (0.305 kgf/cm$^2$)

EBU19830

## Tire wear limit

Replace the tire when the tire groove decreases to 3 mm (0.12 in).




1. Tire wear limit

EBU19840
## Chassis fasteners
Make sure that all nuts, bolts and screws are properly tightened.

EBU19850
## Instruments, lights and switches
Check that all instruments, lights and switches are working properly. Correct if necessary.

EBU19870

# OPERATION

EWB00010

**⚠ WARNING**

**Indicates a potential hazard that could result in serious injury or death.**

EBU19890

EWB00610

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating ATV without being familiar with all controls.**

**WHAT CAN HAPPEN**

**Loss of control, which could cause an accident or injury.**

**HOW TO AVOID THE HAZARD**

**Read the Owner's Manual carefully. If there is a control or function you do not understand, ask your Yamaha dealer.**

6

EBU26740

## Starting the engine

EWB00620

**⚠ WARNING**

**POTENTIAL HAZARD**

**Frozen control cables in cold weather.**

**WHAT CAN HAPPEN**

**You could be unable to control the ATV, which could lead to an accident or collision.**

**HOW TO AVOID THE HAZARD**

**When riding in cold weather, always make sure all control cables work smoothly before you begin riding.**

ECB00150

**CAUTION:**

**See the "Engine break-in" section on page 6-5 prior to operating the engine for the first time.**

1. Set the parking brake.
2. Turn the main switch to "ON" and the engine stop switch to "RUN".

ECB00770

**CAUTION:**

**The fuel level warning light and engine trouble**

**warning light should come on, then go off. If a warning light does not go off, see page 4-2 for the corresponding warning light circuit check.**

3. Shift the transmission into neutral. The neutral indicator light should come on, if it does not come on, have a Yamaha dealer check the electrical circuit.

**NOTE:**

This model is equipped with an ignition circuit cut-off system. The engine can be started under the following conditions.

- The transmission is in neutral.
- The clutch is disengaged with the transmission in gear. However, it is recommended to shift into neutral before starting the engine.

4. Completely close the throttle lever and start the engine by pushing the start switch.

**NOTE:**

If the engine fails to start, release the start switch, then push it again. Pause a few seconds before the next attempt. Each cranking should be as short as possible to preserve battery energy. Do not crank the engine more than 10 seconds on each attempt.

5. Continue warming up the engine until it idles smoothly.

ECB00160

**CAUTION:**

**For maximum engine life, always warm the engine up before starting off. Never accelerate hard when the engine is cold!**

**NOTE:**

The engine is warm when it responds normally to the throttle.

6

EBU20490

## Operating the reverse knob and driving in reverse

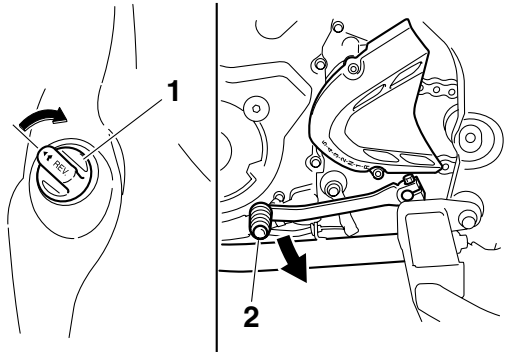
ECB00170

**CAUTION:**

**Before shifting, stop the ATV, otherwise the transmission may be damaged.**

1. Bring the ATV to a complete stop, apply the clutch lever, and then shift the transmission into first gear.
2. While applying the brake pedal, turn the reverse knob clockwise with your right hand.
3. Apply the clutch lever and shift the transmis-

sion into reverse by pressing down on the shift pedal, and then release the reverse knob.




1. Reverse knob “REV”
2. Shift pedal

**NOTE:**

When in reverse, the reverse indicator light should come on. If the indicator light does not come on, have a Yamaha dealer check the electrical circuit.

4. Check behind you for people or obstacles, and then release the brake pedal.
5. Open the throttle lever gradually and release the clutch lever slowly. Continue to watch to the rear while backing.

EWB00660

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improperly operating in reverse.**

**WHAT CAN HAPPEN**

**You could hit an obstacle or even a person behind you, resulting in serious injury.**

**HOW TO AVOID THE HAZARD**

**When you shift into reverse, make sure there are no people or obstacles behind you. When it is safe to proceed, go slowly.**

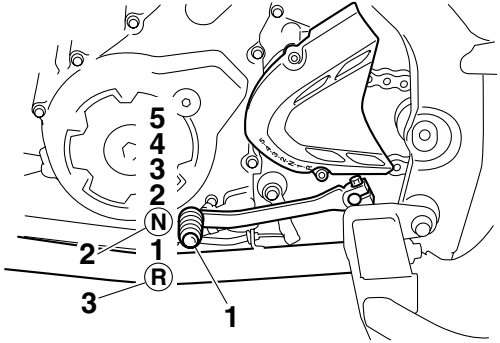
EBU20530

## Shifting

This ATV has a 5-speed forward and 1-speed reverse transmission. The transmission allows you to control the amount of power you have available at a given speed or for starting, accelerating, climbing hills, etc.

To shift into neutral, return the throttle lever to the closed position, apply the clutch, and then repeatedly depress the shift pedal until it stops.

When it stops, it will be in first gear. Raise the pedal slightly to reach the neutral position.




1. Shift pedal
2. Neutral position
3. Reverse position

EBU20560

**To start out and accelerate**

1. Release the throttle lever.

ECB00200

**CAUTION:**

**Always close the throttle before shifting gears, otherwise damage to the engine and drive train may result.**

2. Pull the clutch lever to disengage the clutch.
3. Shift into first gear.
4. Open the throttle gradually and at the same time, release the clutch lever slowly.
5. Once the ATV has attained adequate speed, release the throttle, and at the same time, quickly pull in the clutch lever.
6. Shift the transmission into second gear. (Make sure not to shift the transmission into neutral)
7. Open the throttle part way and gradually release the clutch lever.
8. Follow the same procedure when shifting to the next higher gear.

EWB00680

**⚠ WARNING**

**POTENTIAL HAZARD**

**Opening the throttle abruptly or releasing the clutch lever too quickly.**

**WHAT CAN HAPPEN**

**The ATV could wheelie. This would increase the chance of an accident, including overturn.**

**HOW TO AVOID THE HAZARD**

**Open the throttle gradually.**

**Release the clutch lever gradually.**

EBU20640

**To decelerate**

When slowing down or stopping, release the throt-

tle and apply the brakes smoothly and evenly. As you slow down, shift to a lower gear. Be sure that the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or shifting can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

EWB00650

**⚠ WARNING**

**POTENTIAL HAZARD**

**Engaging a lower gear when the engine speed is too high.**

**WHAT CAN HAPPEN**

**The wheels could stop rotating and lose traction. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.**

**HOW TO AVOID THE HAZARD**

**Make sure the engine has sufficiently slowed before shifting to a lower gear.**



ECB00180

**CAUTION:**

- **Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, and do not tow the ATV for long distances. The transmission is properly lubricated only when the engine is running. Inadequate lubrication may damage the transmission.**
- **Always use the clutch when changing gears. The engine, transmission and drive train are not designed to withstand the shock of forced shifting and can be damaged by shifting without using the clutch.**

EBU20672

## Engine break-in

**NOTE:**

- For ATVs equipped with an odometer or an hour meter, follow the figures given in km (mi) or the figures given in hours.
- For ATVs not equipped with an odometer or hour meter, follow the figures given in hours.

There is never a more important period in the life of your engine than the first 320 km (200 mi) or 20 hours of riding. For this reason, you should read the following material carefully.

Since the engine is brand new, do not put an excessive load on it for the first 320 km (200 mi) or 20 hours. The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle

operation or any condition that might result in engine overheating must be avoided.

**0–160 km (0–100 mi) or 0–10 hours**
Avoid prolonged operation above 1/2 throttle. Vary the speed of the ATV regularly. Do not operate it at one set throttle position.

**160–320 km (100–200 mi) or 10–20 hours**
Avoid prolonged operation above 3/4 throttle. Rev the engine through the gears freely, but do not use full throttle at any time.

**320 km (200 mi) or 20 hours and beyond**
The ATV can now be operated normally.

ECB00220

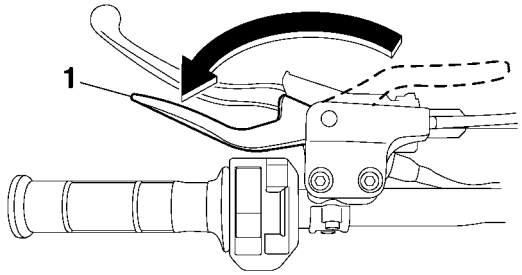
**CAUTION:**

**If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the ATV.**

EBU26760

## Parking

When parking the ATV, stop the engine, shift into first gear, and then apply the parking brake.




1. Locked position

EBU20870

## Parking on a slope

EWB00800

**⚠ WARNING**

**POTENTIAL HAZARD**

**Parking on a hill or other incline.**

**WHAT CAN HAPPEN**

**The ATV could roll out of control, increasing the chance of an accident.**

**HOW TO AVOID THE HAZARD**

**Avoid parking on hills or other inclines. If you must park on an incline, place the ATV transversely across the incline, apply the parking brake, stop the engine, shift into first gear, and then block the front and rear wheels with rocks or other objects.**

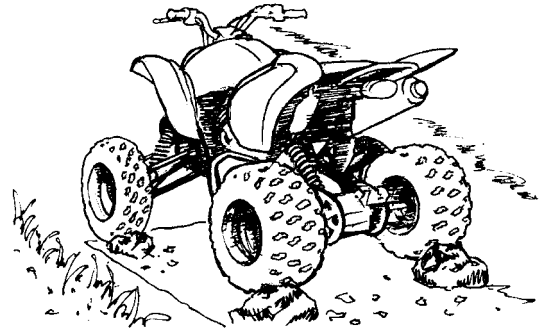
**Do not park the ATV at all on hills that are so steep you could not walk up them easily.**

1. Bring the ATV to a stop by applying the front brake.
2. With the front and rear brake applied, pull the clutch lever, shift into the neutral position, release the clutch lever, and then apply the parking brake.
3. Stop the engine by setting the engine stop switch to “OFF”.
4. With the front and rear brakes applied, pull the clutch lever, shift into first gear, and then release the clutch lever, brake lever and brake pedal.

**NOTE:**

Make sure that the neutral indicator light goes off.

5. Turn the key to “OFF”.



EBU20910

## Accessories and loading

EBU20920

### Accessories

Accessories can affect the handling and control of your ATV. Keep the following in mind when consid-

ering an accessory or operating an ATV which has accessories.

- Choose only accessories designed for your ATV. Your Yamaha dealer has a variety of genuine Yamaha accessories. Other accessories may also be available on the market. However, it is not possible for Yamaha to test all non-Yamaha accessories, nor control over their quality or suitability. Choose a genuine Yamaha accessory, or one that is equivalent in design and quality.
- Accessories should be rigidly and securely mounted. An accessory which can shift position or come off while you are riding could affect your ability to control the ATV.
- Do not mount an accessory where it could interfere with your ability to control the ATV. Examples include (but are not limited to) a heavy or bulky object attached to the handlebars which could make steering difficult, an accessory that limits your ability to move around on the seat, or one that limits your view.
- Use extra caution when riding an ATV with accessories. The ATV may handle differently than it does without accessories.

EBU20930

## Loading

As originally equipped, this ATV is not designed to carry cargo or tow a trailer. If you choose to add accessories so that you can carry cargo or tow a trailer, you must use common sense and good judgment as the stability and handling of an ATV can be changed. When adding accessories, keep the following points in mind:

- Never exceed the weight limits shown. An overloaded ATV can be unstable.

MAXIMUM LOADING LIMIT
ATV loading limit (total weight of rider, cargo, accessories, and tongue):
100.0 kg (220 lb)

- If you are carrying cargo and towing a trailer, include the tongue weight in the maximum ATV load limit.
- Load cargo on the carriers as close to the center of the ATV as possible. Put cargo at the rear of the front carrier, at the front of the rear carrier, and center it.
- Tie down cargo securely to the carriers. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.

- Make sure the load does not interfere with controls or your ability to see where you are going.
- Ride more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed 2nd gear whenever you are carrying heavier loads or when towing a trailer.
- Allow more braking distance. A heavier ATV takes longer to stop.
- Avoid making sharp turns unless at very slow speeds.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the ATV.



EWB00750

**⚠ WARNING**

**POTENTIAL HAZARD**

**Overloading this ATV or carrying or towing cargo improperly.**

**WHAT CAN HAPPEN**

**Could cause changes in ATV handling which could lead to an accident.**

**HOW TO AVOID THE HAZARD**

**Never exceed the stated load capacity for this ATV.**

**Cargo should be properly distributed and securely attached.**

**Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.**

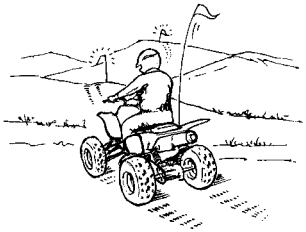
EWB00010

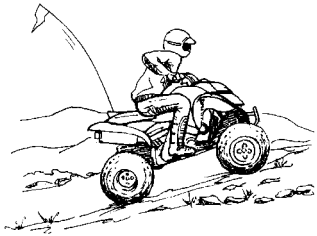
**⚠ WARNING**

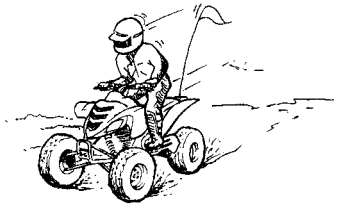
**Indicates a potential hazard that could result in serious injury or death.**

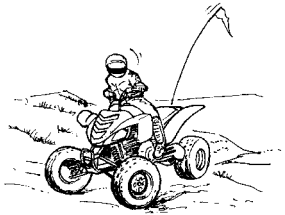
EBU21131

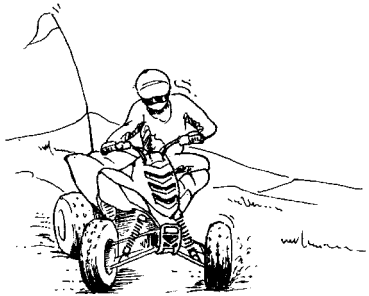
# RIDING YOUR ATV











7

EWB00010

**⚠ WARNING**

**Indicates a potential hazard that could result in serious injury or death.**

EBU21591

## GETTING TO KNOW YOUR ATV

This ATV is intended for recreational use by experienced operators only. Even if you are an experienced operator of all other all terrain ATVs or motorcycles, riding the ATV requires special skills acquired through practice. Take your time to fully learn techniques before attempting more difficult maneuvers.

Riding your new ATV can be a very enjoyable activity, providing you with hours of pleasure. But it is essential to familiarize yourself with the operation of the ATV to achieve the skill necessary to enjoy riding safely. Before you begin to ride, be sure you have read this Owner's Manual completely and understand the operation of the controls. Pay particular attention to the safety information on pages 1-1–1-4. Please also read all caution and warning labels on your ATV.



## RIDE WITH CARE AND GOOD JUDGEMENT

**Get training if you are inexperienced.**

Beginners should get training from a certified instructor.

Become familiar with this ATV at slow speeds first, even if you are an experienced operator. Do not attempt to operate at maximum performance until you are totally familiar with the ATV's handling and performance characteristics.

EWB01280

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV without proper instruction.**

**WHAT CAN HAPPEN**

**The risk of an accident is greatly increased if the operator does not know how to operate the ATV properly in different situations and on different types of terrain.**

**HOW TO AVOID THE HAZARD**

**Beginning and inexperienced operators should complete the certified training course offered by Yamaha. They should then regularly practice the skills learned in the course and the operating techniques described in this Owner's Manual. For more information about the training course, contact an authorized ATV dealer or call 1-800-887-2887.**

**Riding your ATV requires skills acquired through practice over a period of time.**

Take the time to learn the basic techniques well before attempting more difficult maneuvers.

**Not recommended for children under 16 years of age.**

EWB00901

**⚠ WARNING**

**POTENTIAL HAZARD**

**Failure to follow the age recommendations for this ATV.**

**WHAT CAN HAPPEN**

**Use by children of ATVs that are not recommended for their age can lead to severe injury or death of the child.**

**HOW TO AVOID THE HAZARD**

**A child under 16 should never operate an ATV with engine size greater than 90 cc.**

**This ATV is designed to carry operator only – passengers prohibited.**

EWB00910

**⚠ WARNING**

**POTENTIAL HAZARD**

**Carrying a passenger on this ATV.**

**WHAT CAN HAPPEN**

**Greatly reduces your ability to balance and control this ATV. Could cause an accident, resulting in harm to you and/or your passenger.**

**HOW TO AVOID THE HAZARD**

**Never carry a passenger. The long seat is to allow the operator to shift position as needed during operation. It is not for carrying passengers.**

**Apparel**

EWB00920

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV without wearing an approved motorcycle helmet, eye protection and protective clothing.**

**WHAT CAN HAPPEN**

**Operating without an approved motorcycle helmet increases your chances of a severe head injury or death in the event of an accident.**

**Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.**

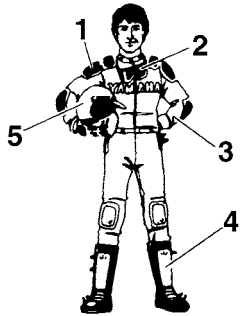
**Operating without protective clothing increases your chances of severe injury in the event of an accident.**

**HOW TO AVOID THE HAZARD**

**Always wear an approved motorcycle helmet that fits properly.**

**You should also wear:**

- **eye protection (goggles or face shield)**
- **gloves**
- **boots**
- **long-sleeved shirt or jacket**
- **long pants**




1. Protective clothing
2. Goggles
3. Gloves
4. Boots
5. Helmet

**Do not operate after consuming alcohol or drugs.**

The operator's performance capability is reduced by the influence of alcohol or drugs.

EWB00930

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV after consuming alcohol or drugs.**

**WHAT CAN HAPPEN**

**Could seriously affect your judgment.**
**Could cause you to react more slowly.**
**Could affect your balance and perception.**
**Could result in an accident.**

**HOW TO AVOID THE HAZARD**

**Never consume alcohol or drugs before or while driving this ATV.**

**Pre-operation checks**

Always perform the pre-operation checks listed on page 5-1 before riding for proper care of the ATV and to ensure safety.

EWB00940

**⚠ WARNING**

**POTENTIAL HAZARD**

**Failure to inspect the ATV before operating.**
**Failure to properly maintain the ATV.**

**WHAT CAN HAPPEN**

**Increases the possibility of an accident or equipment damage.**

**HOW TO AVOID THE HAZARD**

**Always inspect your ATV each time you use it to make sure the ATV is in safe operating condition.**
**Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.**

EWB00950

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV with improper tires, or with improper or uneven tire pressure.**

**WHAT CAN HAPPEN**

**Use of improper tires on this ATV, or operation of this ATV with improper or uneven tire pressure, may cause loss of control, increasing your risk of an accident.**

**HOW TO AVOID THE HAZARD**

**Always use the size and type tires specified in the Owner's Manual for this ATV on page 5-6.**

**Always maintain proper tire pressure as described in the Owner's Manual on page 5-7.**

EWB00010

**⚠ WARNING**

**Indicates a potential hazard that could result in serious injury or death.**

**Do not operate at speeds too fast for your skills or the conditions.**

EWB00960

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV at speeds too fast for your skills or the conditions.**

**WHAT CAN HAPPEN**

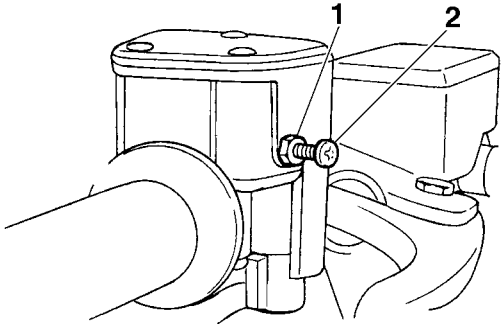
**Increases your chances of losing control of the ATV, which can result in an accident.**

**HOW TO AVOID THE HAZARD**

**Always go at a speed that is proper for the terrain, visibility and operating conditions, and your experience.**

### Speed limiter

For riders less experienced with this model, the throttle lever housing is equipped with a speed limiter. The speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to the maximum. Turning in the adjusting screw limits the maximum engine power available and decreases the maximum speed of the ATV. Turning in the adjusting screw decreases top speed, and turning it out increases top speed. (See page 4-5.)




1. Locknut
2. Adjusting screw

7

**Loading and accessories**

As originally equipped, this ATV is not designed to carry cargo or tow a trailer. If you choose to add accessories so that you can carry cargo or tow a trailer, you must use common sense and good judgment.

Use extra caution when riding the ATV with additional loads, such as accessories or cargo. The ATV's handling may be adversely affected. Reduce your speed when adding additional loads.

MAXIMUM LOADING LIMIT
ATV loading limit (total weight of cargo, rider, accessories, and tongue):
100.0 kg (220 lb)

EWB00970

**⚠ WARNING**

**POTENTIAL HAZARD**

**Overloading this ATV or carrying or towing cargo improperly.**

**WHAT CAN HAPPEN**

**Could cause changes in ATV handling which could lead to an accident.**

**HOW TO AVOID THE HAZARD**

**Never exceed the stated load capacity for this ATV.**

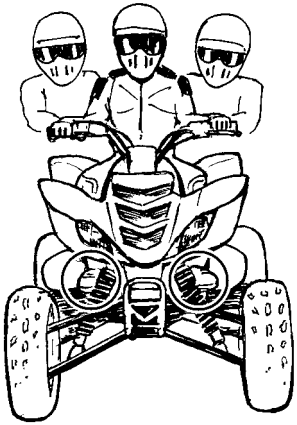
**Cargo should be properly distributed and securely attached.**

**Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.**

**Always follow the instructions in your Owner's Manual for carrying cargo or pulling a trailer.**

**During operation**

Always keep your feet on the footboards during operation, otherwise they may contact the rear wheels.



EWB00980

**⚠ WARNING**

**POTENTIAL HAZARD**

**Removing hands from handlebars or feet from footboards during operation.**

**WHAT CAN HAPPEN**

**Removing even one hand or foot can reduce your ability to control the ATV or could cause you to lose your balance and fall off of the ATV. If you remove a foot from a footboard, your foot or leg may come into contact with the rear wheels, which could injure you or cause an accident.**

**HOW TO AVOID THE HAZARD**

**Always keep both hands on the handlebars and both feet on the footboards of your ATV during operation.**

Avoid wheelies and jumping. You may lose control of the ATV or overturn.

EWB00990

**⚠ WARNING**

**POTENTIAL HAZARD**

**Attempting wheelies, jumps, and other stunts.**

**WHAT CAN HAPPEN**

**Increases the chance of an accident, including an overturn.**

**HOW TO AVOID THE HAZARD**

**Never attempt stunts, such as wheelies or jumps. Don't try to show off.**

7

## Modifications

EWB01000

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV with improper modifications.**

**WHAT CAN HAPPEN**

**Improper installation of accessories or modification of this ATV may cause changes in handling which in some situations could lead to an accident.**

**HOW TO AVOID THE HAZARD**

**Never modify this ATV through improper installation or use of accessories. All parts and accessories added to this ATV should be genuine Yamaha or equivalent components designed for use on this ATV and should be installed and used according to instructions. If you have questions, consult an authorized ATV dealer.**

### Exhaust system

The exhaust system on the ATV is very hot during and following operation. To prevent burns, avoid touching the exhaust system. Park the ATV in a place where pedestrians or children are not likely to touch it.

EWB01010

**⚠ WARNING**

**POTENTIAL HAZARD**

**Hot exhaust system.**

**WHAT CAN HAPPEN**

**Dry grass or brush or other combustible material accumulated around the engine area could catch fire.**

**Someone touching the exhaust system during or after operation could be burned.**

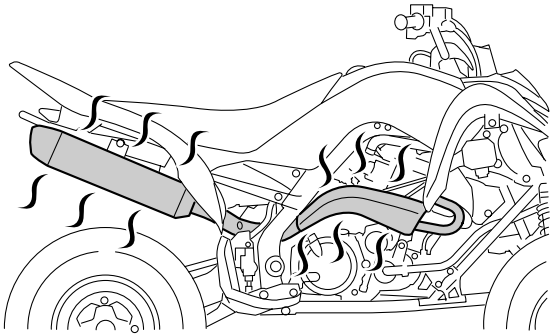
**HOW TO AVOID THE HAZARD**

**Do not operate, idle, or park the ATV in dry grass or other dry ground cover.**

**Keep the engine area free of dry grass, brush, or other combustible material.**

**Do not touch the hot exhaust system.**

**Do not park the ATV in a place where others might be likely to touch it.**



**BE CAREFUL WHERE YOU RIDE**

This ATV is designed for off-road use only. Riding on paved surfaces can cause loss of control.

EWB01020

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV on paved surfaces.**

**WHAT CAN HAPPEN**

**ATVs are designed for off-road use only. Paved surfaces may seriously affect handling and control of the ATV, and may cause the ATV to go out of control.**

**HOW TO AVOID THE HAZARD**

**Always avoid paved surfaces, including sidewalks, driveways, parking lots and streets.**

Do not ride on any public road, street, or highway. Riding on public roads can result in collisions with other vehicles.

EWB01030

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV on public streets, roads or highways.**

**WHAT CAN HAPPEN**

**You can collide with another vehicle.**

**HOW TO AVOID THE HAZARD**

**Never operate this ATV on any public street, road or highway, even a dirt or gravel one. In many states it is illegal to operate ATVs on public streets, roads and highways.**

Know the terrain where you ride. Ride cautiously in unfamiliar areas. Stay alert for **holes, rocks, or roots** in the terrain, and **other hidden hazards** which may cause the ATV to upset.

EWB01040

**⚠ WARNING**

**POTENTIAL HAZARD**

**Failure to use extra care when operating this ATV on unfamiliar terrain.**

**WHAT CAN HAPPEN**

**You can come upon hidden rocks, bumps, or holes, without enough time to react. Could result in the ATV overturning or going out of control.**

**HOW TO AVOID THE HAZARD**

**Go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.**

EWB01050

**⚠ WARNING**

**POTENTIAL HAZARD**

**Failure to use extra care when operating on excessively rough, slippery or loose terrain.**

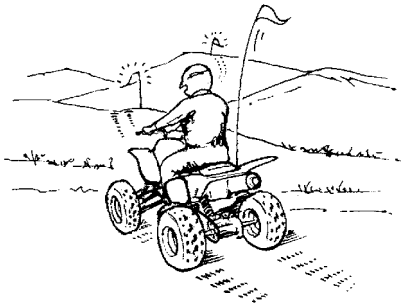
**WHAT CAN HAPPEN**

**Could cause loss of traction or ATV control, which could result in an accident, including an overturn.**

**HOW TO AVOID THE HAZARD**

**Do not operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.**

When riding in an area where you might not easily be seen, such as desert terrain, mount a caution flag on the ATV. DO NOT use the flag pole bracket as a trailer hitch.



EWB01060

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating in areas where you might not be seen by other off-road vehicles.**

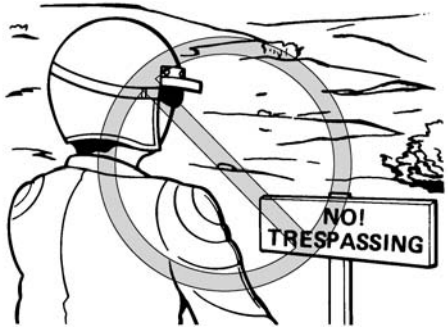
**WHAT CAN HAPPEN**

**You could be in a collision. You could be injured.**

**HOW TO AVOID THE HAZARD**

**Always mount a caution flag on the ATV to make you more visible. Watch carefully for other vehicles.**

Do not ride in areas posted “no trespassing”.
Do not ride on private property without getting permission.




Select a large, flat area off-road to become familiar with your ATV. Make sure that this area is free of obstacles and other riders. You should practice control of the throttle, brakes, shifting procedures, and turning techniques in this area before trying more difficult terrain. Always avoid riding on paved surfaces: the ATV is designed for off-road use only, and handling maneuvers are more difficult to perform on pavement.
Set the parking brake and follow the instruction on page 6-1 to start the engine. Once it has warmed up you are ready to begin riding your ATV. As you get on the ATV, be sure not to accidentally move the shift pedal. Remember that the engine and exhaust pipe will be hot when riding and afterwards;

do not allow skin or clothing to come in contact with these components.

With the engine idling, pull the clutch lever to disengage the clutch and shift into 1st gear, and then release the parking brake. Open the throttle gradually, and at the same time, release the clutch lever slowly. Once the ATV has attained adequate speed, release the throttle lever and at the same time, quickly pull in the clutch lever and shift into 2nd gear. Open the throttle part way and gradually release the clutch. Use this same procedure as you move into the higher gears. Be sure to coordinate the use of the throttle and shift pedal properly. If the throttle is applied too abruptly or if the throttle is not released during shifting, or if the shift pedal is not released before applying the throttle, the front wheels may lift off the ground, resulting in a loss of directional control. Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.



EWB01240

**⚠ WARNING**

**POTENTIAL HAZARD**

**Opening the throttle abruptly or releasing the clutch lever too quickly.**

**WHAT CAN HAPPEN**

**The ATV could wheelie. This would increase the chance of an accident, including overturn.**

**HOW TO AVOID THE HAZARD**

**Open the throttle gradually. Release the clutch lever gradually.**

ECB00230

**CAUTION:**

**Do not shift gears without releasing the throttle. Damage to the engine or drive train may occur.**

When slowing down or stopping, release the throttle and apply the brakes smoothly and evenly. As you slow down, shift to a lower gear. Be sure that the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or shifting can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

EWB01070

**⚠ WARNING**

**POTENTIAL HAZARD**

**Engaging a lower gear when the engine speed is too high.**

**WHAT CAN HAPPEN**

**The wheels could stop rotating. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.**

**HOW TO AVOID THE HAZARD**

**Make sure the engine has sufficiently slowed before shifting to a lower gear.**

## TURNING YOUR ATV

To achieve maximum traction while riding off-road, the two rear wheels are mounted solidly on one axle and turn together at the same speed. Therefore, unless the wheel on the inside of the turn is allowed to slip or lose some traction, the ATV will resist turning. A special turning technique must be used to allow the ATV to make turns quickly and easily. It is essential that this skill be learned first at low speed.

EWB01220

**⚠ WARNING**

**POTENTIAL HAZARD**

**Turning improperly.**

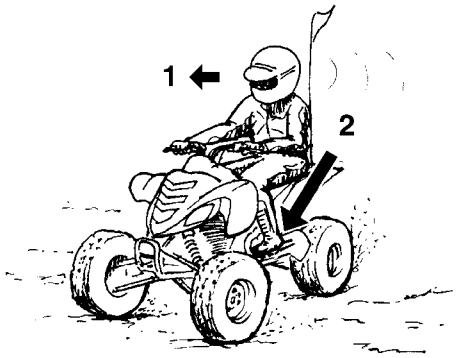
**WHAT CAN HAPPEN**

**The ATV could go out of control, causing a collision or overturn.**

**HOW TO AVOID THE HAZARD**

**Always follow proper procedures for turning as described in this Owner's Manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at speeds too fast for your skills or the conditions.**

As you approach a curve, slow down and begin to turn the handlebars in the desired direction. As you do so, put your weight on the footboard to the outside of the turn (opposite your desired direction) and lean your upper body into the turn. Use the throttle to maintain an even speed through the turn. This maneuver will let the wheel on the inside of the turn slip slightly, allowing the ATV to make the turn properly.






1. Lean towards inside of turn.
2. Support your weight on the outer footrest.

This procedure should be practiced at slow speed many times in a large off-road area with no obstacles. If an incorrect technique is used, your ATV may continue to go straight. If the ATV doesn't turn, come to a stop and then practice the procedure again. If the riding surface is slippery or loose, it may help to position more of your weight over the front wheels by moving forward on the seat.

Once you have learned this technique, you should be able to perform it at higher speeds or in tighter curves.

Improper riding procedures such as abrupt throttle changes, excessive braking, incorrect body movements, or too much speed for the sharpness of the turn may cause the ATV to tip. If the ATV begins to tip over to the outside while negotiating a turn, lean more to the inside. It may also be necessary to gradually let off on the throttle and steer to the outside of the turn to avoid tipping over.

Remember: Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.

**CLIMBING UPHILL**

Use proper riding techniques to avoid ATV overturns on hills. Be sure that you can maneuver your ATV well on flat ground before attempting any incline and then practice riding first on gentle slopes. Try more difficult climbs only after you have developed your skill. In all cases avoid inclines with slippery or loose surfaces, or obstacles that might cause you to lose control.

EWB01090

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating on excessively steep hills.**

**WHAT CAN HAPPEN**

**The ATV can overturn more easily on extremely steep hills than on level surfaces or small hills.**

**HOW TO AVOID THE HAZARD**

**Never operate the ATV on hills too steep for the ATV or for your abilities. Practice on smaller hills before attempting large hills.**

It is important when climbing a hill to make sure that your weight is transferred forward on the ATV. This can be accomplished by leaning forward and, on steeper inclines, standing on the footboards and leaning forward over the handlebars.

EWB01100

**⚠ WARNING**

**POTENTIAL HAZARD**

**Climbing hills improperly.**

**WHAT CAN HAPPEN**

**Could cause loss of control or cause the ATV to overturn.**

**HOW TO AVOID THE HAZARD**

**Always follow proper procedures for climbing hills as described in this Owner's Manual.**

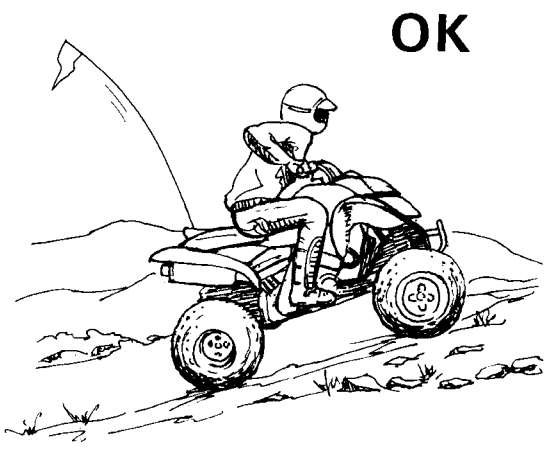
**Always check the terrain carefully before you start up any hill.**

**Never climb hills with excessively slippery or loose surfaces.**

**Shift your weight forward.**

**Never open the throttle suddenly or make sudden gear changes. The ATV could flip over backwards.**

**Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.**

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If you are climbing a hill and you find that you have not properly judged your ability to make it to the top, you should turn the ATV around while you still have forward motion (provided you have the room to do so) and go down the hill.

EWB01190

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improperly crossing hills or turning on hills.**

**WHAT CAN HAPPEN**

**Could cause loss of control or cause the ATV to overturn.**

**HOW TO AVOID THE HAZARD**

**Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the Owner's Manual on level ground. Be very careful when turning on any hill.**

**Avoid crossing the side of a steep hill if possible.**

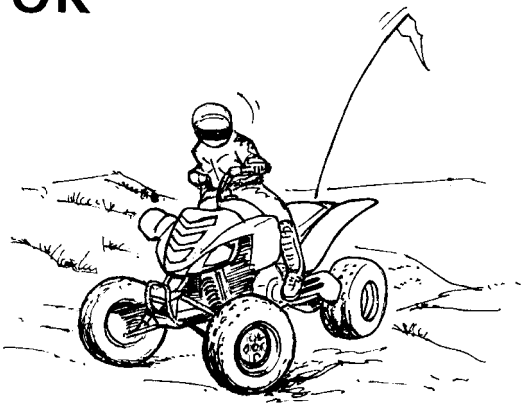
**When crossing the side of a hill:**

**Always follow proper procedures as described in the Owner's Manual.**

**Avoid hills with excessively slippery or loose surfaces.**

**Shift your weight to the uphill side of the ATV.**

OK



If your ATV has stalled or stopped and you believe you can continue up the hill, restart carefully to make sure you do not lift the front wheels which could cause you to lose control. If you are unable to continue up the hill, dismount the ATV on the uphill side. Physically turn the ATV around and then descend the hill.

If you start to roll backwards, DO NOT apply the rear brake to stop or try to put the ATV in gear. The ATV could easily tip over backwards. Instead, apply the front brake gradually, or dismount the ATV immediately on the uphill side.

EWB01251

**⚠ WARNING**

**POTENTIAL HAZARD**

**Stalling, rolling backwards or improperly dismounting while climbing a hill.**

**WHAT CAN HAPPEN**

**Could result in the ATV overturning.**

**HOW TO AVOID THE HAZARD**

**Use the proper gear and maintain a steady speed when climbing a hill.**

**If you lose all forward speed:**

- **Keep weight uphill.**
- **Apply the brakes.**
- **Lock the parking brake after you are stopped.**

**If you begin rolling backwards:**

- **Keep weight uphill.**
- **Never apply the rear brake while rolling backwards. Apply the front brake.**
- **When fully stopped, apply the rear brake as well, and then lock the parking brake.**

**Dismount on uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in the Owner's Manual.**

**RIDING DOWNHILL**

When riding your ATV downhill, shift your weight as far to the rear and uphill side of the ATV as possible. Move back on the seat and sit with your arms straight. Choose a low gear which will allow the engine compression to do most of the braking for you. Improper braking may cause a loss of traction.

Use caution while descending a hill with loose or slippery surfaces. Braking ability and traction may be adversely affected by these surfaces. Improper braking may also cause a loss of traction.

Whenever possible, ride your ATV straight downhill. Avoid sharp angles which could allow the ATV to tip or roll over. Carefully choose your path and ride no faster than you will be able to react to obstacles which may appear.

EWB01130

**⚠ WARNING**

**POTENTIAL HAZARD**

**Going down a hill improperly.**

**WHAT CAN HAPPEN**

**Could cause loss of control or cause the ATV to overturn.**

**HOW TO AVOID THE HAZARD**

**Always follow proper procedures for going down hills as described in this Owner's Manual.**

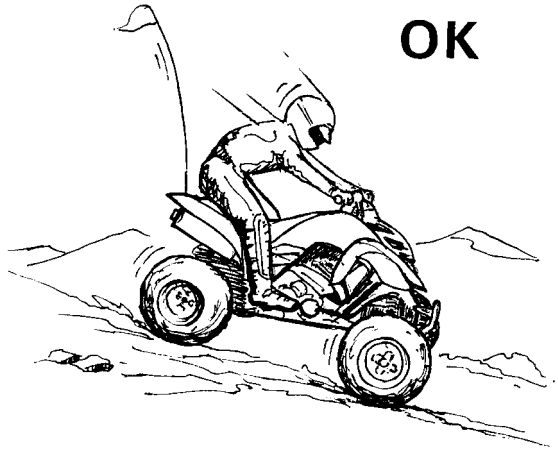
**Note: a special technique is required when braking as you go down a hill.**

**Always check the terrain carefully before you start down any hill.**

**Shift your weight backward.**

**Never go down a hill at high speed.**

**Avoid going down a hill at an angle that would cause the ATV to lean sharply to one side. Go straight down the hill where possible.**






**CROSSING A SLOPE**

Traversing a sloping surface on your ATV requires you to properly position your weight to maintain proper balance. Be sure that you have learned the basic riding skills on flat ground before attempting to cross a sloping surface. Avoid slopes with slippery surfaces or rough terrain that may upset your balance.

As you travel across a slope, lean your body in the uphill direction. It may be necessary to correct the

steering when riding on loose surfaces by pointing the front wheels slightly uphill. When riding on slopes, be sure not to make sharp turns either up or down hill.

If your ATV does begin to tip over, gradually steer in the downhill direction if there are no obstacles in your path. As you regain proper balance, gradually steer again in the direction you wish to travel.

EWB01141

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improperly crossing hills or turning on hills.**

**WHAT CAN HAPPEN**

**Could cause loss of control or cause the ATV to overturn.**

**HOW TO AVOID THE HAZARD**

**Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the Owner's Manual on level ground. Be very careful when turning on any hill. Avoid crossing the side of a steep hill if possible.**

**When crossing the side of a hill:**

**Always follow proper procedures as described in the Owner's Manual.**

**Avoid hills with excessively slippery or loose surfaces.**

**Shift your weight to the uphill side of the ATV.**

**CROSSING THROUGH SHALLOW WATER**

The ATV can be used to cross slow moving, shal-

low water of up to a maximum of 35 cm (14 in) in depth. Before entering the water, choose your path carefully. Enter where there is no sharp drop off, and avoid rocks or other obstacles which may be slippery or upset the ATV. Drive slowly and carefully.

EWB01150

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV through deep or fast flowing water.**

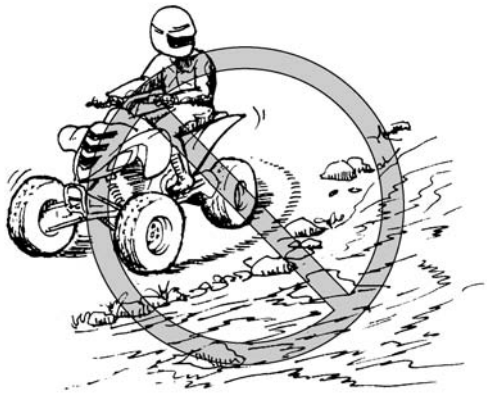
**WHAT CAN HAPPEN**

**Tires may float, causing loss of traction and loss of control, which could lead to an accident.**

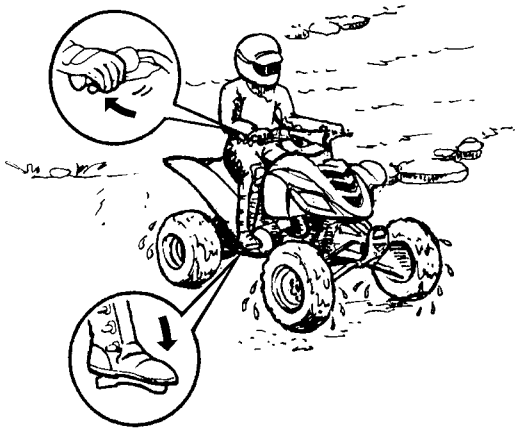
**HOW TO AVOID THE HAZARD**

**Never operate this ATV in fast flowing water or in water deeper than that specified in your Owner's Manual.**

**Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.**



Test your brakes after leaving the water. Do not continue to ride your ATV without verifying that you have regained proper braking ability.



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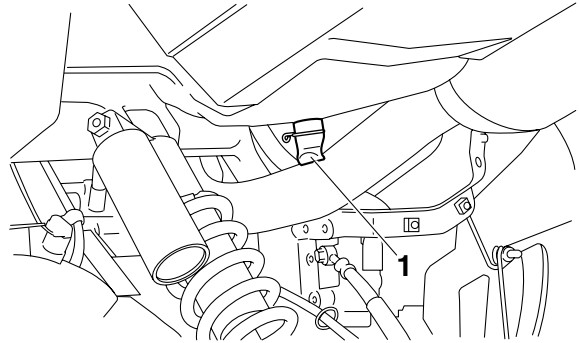
ECB00240

**CAUTION:**

**After riding your ATV in water, be sure to drain the trapped water by removing the check hose at the bottom of the air filter case. Wash the ATV in fresh water if it has been operated in salt water or muddy conditions.**




1. Air filter case check hose

## RIDING OVER ROUGH TERRAIN

Riding over rough terrain should be done with caution. Look out for obstacles which could cause damage to the ATV or could lead to an upset or accident. Be sure to keep your feet firmly mounted on the footboards at all times. Avoid jumping the ATV as loss of control and damage to the ATV may result.

EWB01160

**⚠ WARNING**

**POTENTIAL HAZARD**

**Improperly operating over obstacles.**

**WHAT CAN HAPPEN**

**Could cause loss of control or a collision.**
**Could cause the ATV to overturn.**

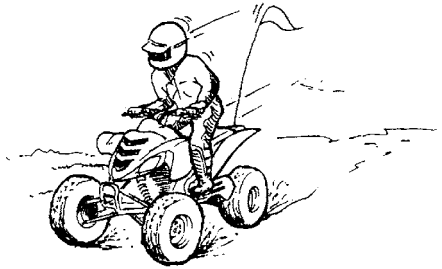
**HOW TO AVOID THE HAZARD**

**Before operating in a new area, check for obstacles.**
**Never attempt to ride over large obstacles, such as large rocks or fallen trees. When you go over obstacles, always follow proper procedures as described in the Owner's Manual.**

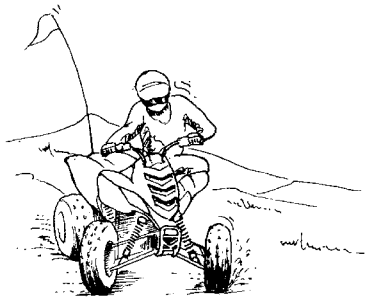
## SLIDING AND SKIDDING

Care should be used when riding on loose or slippery surfaces since the ATV may slide. If unexpected and uncorrected, sliding could lead to an accident.

To reduce the tendency for the front wheels to slide in loose or slippery conditions, positioning your weight over the front wheels will sometimes help.



If the rear wheels of your ATV start to slide sideways, control can usually be regained (if there is room to do so) by steering in the direction of the slide. Applying the brakes or accelerating is not recommended until you have corrected the slide.



With practice, over a period of time, skill at controlled sliding can be developed. The terrain should be chosen carefully before attempting such maneuvers, since both stability and control are reduced. Bear in mind that sliding maneuvers should always be avoided on extremely slippery surfaces such as ice, since all control may be lost.

EWB01170

**⚠ WARNING**

**POTENTIAL HAZARD**

**Skidding or sliding improperly.**

**WHAT CAN HAPPEN**

**You may lose control of this ATV. You may also regain traction unexpectedly, which may cause the ATV to overturn.**

**HOW TO AVOID THE HAZARD**

**Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain.**

**On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.**

**WHAT TO DO IF...**

This section is designed to be a reference guide only. Be sure to read each section on riding techniques completely.

**WHAT TO DO...**

- If your ATV doesn't turn when you want it to:
  Bring the ATV to a stop and practice the turning maneuvers again. Be sure you are putting your weight on the footboard to the outside of the turn. Position your weight over the front wheels for better control. (See page 7-17.)
- If your ATV begins to tip while turning:
  Lean more into the turn to regain balance. If necessary, gradually let off the throttle and/or steer to the outside of the turn. (See page 7-17.)
- If your ATV starts to slide sideways:

Steer in the direction of the slide if you have the room. Applying the brakes or accelerating is not recommended until you have corrected the slide. (See page 7-27.)

- If your ATV can't make it up a hill you are trying to climb:
  Turn the ATV around if you still have forward speed. If not, stop, dismount on the uphill side of the ATV and physically turn the ATV around. If the ATV starts to slip backwards, DO NOT USE THE REAR BRAKE – the ATV may tip over on top of you. Dismount the ATV on the uphill side. (See page 7-18.)
- If your ATV is traversing a sloping surface:
  Be sure to ride with your weight positioned towards the uphill side of the ATV to maintain proper balance. If the ATV starts to tip, steer down the hill (if there are no obstacles in your way) to regain balance. If you discover that the ATV is going to tip over, dismount on the uphill side. (See page 7-18.)
- If your ATV encounters shallow water:
  Ride slowly and carefully through slow moving water, watching for obstacles. Be sure to let water drain from the ATV and CHECK YOUR BRAKES FOR PROPER OPERATION when you come out of the water. Do not continue to ride your ATV until you have regained adequate braking ability. (See page 7-24.)

EWB00010

**⚠ WARNING**

**Indicates a potential hazard that could result in serious injury or death.**

EBU21647

# PERIODIC MAINTENANCE AND MINOR REPAIR

EBU21660

Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your ATV in the safest and best operating condition possible. The most important points of inspection, adjustment, and lubrication are explained on the following pages.

The intervals given in the periodic maintenance and lubrication chart should be considered as a general guide under normal riding conditions. However, DEPENDING ON THE WEATHER, TERRAIN, GEOGRAPHICAL LOCATION, AND INDIVIDUAL USE, THE MAINTENANCE INTERVALS MAY NEED TO BE SHORTENED.



EWB01820

**⚠ WARNING**

**POTENTIAL HAZARD**

**Servicing an engine while it is running.**

**WHAT CAN HAPPEN**

**Moving parts can catch clothing or parts of the body, causing injury.**

**Electrical components can cause shocks or start fires.**

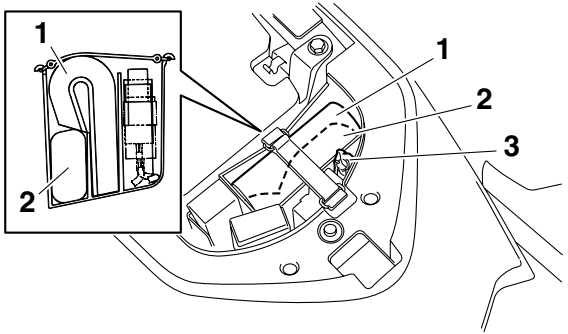
**HOW TO AVOID THE HAZARD**

**Turn off the engine when performing maintenance unless otherwise specified. Have a Yamaha dealer perform the service if you are not familiar with maintenance work.**

EBU27100

## Owner's manual and tool kit

Be sure to put this owner's manual in the plastic bag and to always carry it as well as the owner's tool kit and the low-pressure tire gauge in their respective compartments under the seat.




1. Owner's manual
2. Owner's tool kit
3. Low-pressure tire gauge

The service information included in this manual and the tools provided in the owner's tool kit are intended to assist you in the performance of preventive maintenance and minor repairs. However, additional tools such as a torque wrench may be necessary to perform certain maintenance work correctly.

**NOTE:**
If you do not have the tools or experience required for a particular job, have a Yamaha dealer perform it for you.

EWB01830

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating this ATV with improper modifications.**

**WHAT CAN HAPPEN**

**Improper installation of accessories or modification of this ATV may cause changes in handling which in some situations could lead to an accident.**

**HOW TO AVOID THE HAZARD**

**Never modify this ATV through improper installation or use of accessories. All parts and accessories added to this ATV should be genuine Yamaha or equivalent components designed for use on this ATV and should be installed and used according to instructions. If you have questions, consult an authorized Yamaha ATV dealer.**

EBU21742

# Periodic maintenance chart for the emission control system

**NOTE:**

- For ATVs not equipped with an odometer or an hour meter, follow the month maintenance intervals.
- For ATVs equipped with an odometer or an hour meter, follow the km (mi) or hours maintenance intervals. However, keep in mind that if the ATV isn't used for a long period of time, the month maintenance intervals should be followed.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

| NO. | | ITEM | CHECK OR MAINTENANCE JOB | Whichever comes first ⇨ | | INITIAL | | | EVERY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | month | 1 | 3 | 6 | 6 | 12 |
| | | | | | km (mi) | 320 (200) | 1300 (800) | 2500 (1600) | 2500 (1600) | 5000 (3200) |
| | | | | | hours | 20 | 80 | 160 | 160 | 320 |
| 1 | * | **Fuel line** | • Check fuel hoses for cracks or other damage, and replace if necessary. | | | | | √ | √ | √ |
| 2 | | **Spark plug** | • Check condition and clean, regap, or replace if necessary. | | | √ | √ | √ | √ | √ |
| 3 | * | **Valves** | • Check valve clearance and adjust if necessary. | | | √ | | √ | √ | √ |
| 4 | * | **Fuel injection** | • Check and adjust engine idle speed. | | | √ | √ | √ | √ | √ |
| 5 | * | **Crankcase breather system** | • Check breather hose for cracks or other damage, and replace if necessary. | | | | | √ | √ | √ |
| 6 | * | **Exhaust system** | • Check for leakage and replace gasket(s) if necessary.<br>• Check for looseness and tighten all screw clamps and joints if necessary. | | | | | √ | √ | √ |
| 7 | | **Spark arrester** | • Clean. | | | | | √ | √ | √ |

EBU21864

# General maintenance and lubrication chart

| NO. | | ITEM | CHECK OR MAINTENANCE JOB | Whichever comes first ⇨ | | INITIAL | | | EVERY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | month | 1 | 3 | 6 | 6 | 12 |
| | | | | | km (mi) | 320 (200) | 1300 (800) | 2500 (1600) | 2500 (1600) | 5000 (3200) |
| | | | | | hours | 20 | 80 | 160 | 160 | 320 |
| 1 | | Air filter element | • Clean and replace if necessary. | | | Every 20–40 hours (more often in wet or dusty areas) | | | | |
| 2 | * | Clutch | • Check operation and adjust if necessary. | | | √ | | √ | √ | √ |
| 3 | * | Front brake | • Check operation and correct if necessary.<br>• Check fluid level and ATV for fluid leakage, and correct if necessary. | | | √ | √ | √ | √ | √ |
| | | | • Replace brake pads. | | | Whenever worn to the limit | | | | |
| 4 | * | Rear brake | • Check operation and correct if necessary.<br>• Check fluid level and ATV for fluid leakage, and correct if necessary. | | | √ | √ | √ | √ | √ |
| | | | • Replace brake pads. | | | Whenever worn to the limit | | | | |
| 5 | * | Brake hoses | • Check for cracks or other damage, and replace if necessary. | | | | √ | √ | √ | √ |
| | | | • Replace. | | | Every 4 years | | | | |
| 6 | * | Parking brake | • Check operation and adjust if necessary. | | | √ | √ | √ | √ | √ |
| 7 | * | Wheels | • Check runout and for damage, and replace if necessary. | | | √ | | √ | √ | √ |
| 8 | * | Tires | • Check tread depth and for damage, and replace if necessary.<br>• Check air pressure and balance, and correct if necessary. | | | √ | | √ | √ | √ |
| 9 | * | Wheel hub bearings | • Check for looseness or damage, and replace if necessary. | | | √ | | √ | √ | √ |

| NO. | | ITEM | CHECK OR MAINTENANCE JOB | Whichever comes first ⇨ | | INITIAL | | | EVERY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | month | 1 | 3 | 6 | 6 | 12 |
| | | | | | km (mi) | 320 (200) | 1300 (800) | 2500 (1600) | 2500 (1600) | 5000 (3200) |
| | | | | | hours | 20 | 80 | 160 | 160 | 320 |
| 10 | * | **Upper and lower arm pivots** | • Lubricate with lithium-soap-based grease. | | | | | √ | √ | √ |
| 11 | | **Drive chain** | • Check chain slack and adjust if necessary.<br>• Check rear wheel alignment and correct if necessary.<br>• Clean and lubricate. | | | √ | √ | √ | √ | √ |
| 12 | * | **Chassis fasteners** | • Make sure that all nuts, bolts, and screws are properly tightened. | | | √ | √ | √ | √ | √ |
| 13 | * | **Shock absorber assemblies** | • Check operation and correct if necessary.<br>• Check for oil leakage and replace if necessary. | | | | | √ | √ | √ |
| 14 | * | **Rear suspension relay arm and connecting arm pivoting points** | • Check operation and correct if necessary.<br>• Lubricate with lithium-soap-based grease. | | | | √ | √ | √ | √ |
| 15 | * | **Steering shaft** | • Lubricate with lithium-soap-based grease. | | | | | √ | √ | √ |
| 16 | * | **Steering system** | • Check operation and repair or replace if damaged.<br>• Check toe-in and adjust if necessary. | | | √ | √ | √ | √ | √ |
| 17 | | **Engine oil** | • Change.<br>• Check ATV for oil leakage, and correct if necessary. | | | √ | | √ | √ | √ |
| 18 | | **Engine oil filter element** | • Replace. | | | √ | | √ | | √ |
| 19 | | **Cooling system** | • Check coolant level and ATV for coolant leakage, and correct if necessary. | | | √ | √ | √ | √ | √ |
| | | | • Replace coolant. | | | Every 2 years | | | | |

8

| NO. | | ITEM | CHECK OR MAINTENANCE JOB | Whichever comes first ⇨ | | INITIAL | | | EVERY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | month | 1 | 3 | 6 | 6 | 12 |
| | | | | | km (mi) | 320 (200) | 1300 (800) | 2500 (1600) | 2500 (1600) | 5000 (3200) |
| | | | | | hours | 20 | 80 | 160 | 160 | 320 |
| 20 | * | **Moving parts and cables** | • Lubricate. | | | | √ | √ | √ | √ |
| 21 | * | **Throttle lever housing and cable** | • Check operation and correct if necessary.<br>• Check throttle cable free play and adjust if necessary.<br>• Lubricate throttle lever housing and cable. | | | √ | √ | √ | √ | √ |
| 22 | * | **Front and rear brake switches** | • Check operation and correct if necessary. | | | √ | √ | √ | √ | √ |
| 23 | * | **Lights and switches** | • Check operation and correct if necessary.<br>• Adjust headlight beams. | | | √ | √ | √ | √ | √ |

EBU23070

8

**NOTE:**

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake service
  - Regularly check and, if necessary, correct the brake fluid level.
  - Every two years replace the internal components of the brake master cylinders and calipers, and change the brake fluid.
  - Replace the brake hoses every four years and if cracked or damaged.

EWB00010

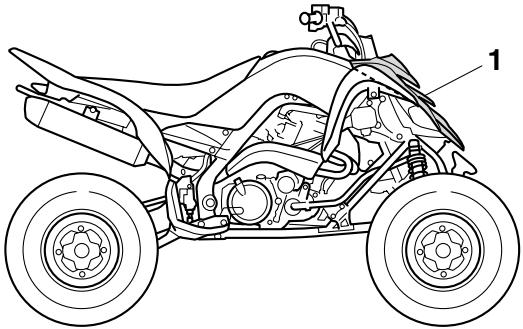
**⚠ WARNING**

**Indicates a potential hazard that could result in serious injury or death.**

EBU23080

## Removing and installing the panel

The panel shown needs to be removed to perform some of the maintenance jobs described in this chapter. Refer to this section each time the panel needs to be removed and installed.




1. Panel A

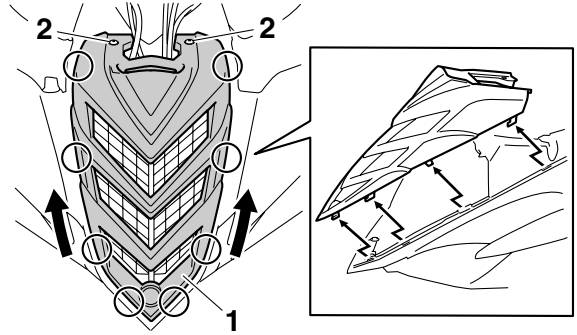


EBU23100

### Panel A

To remove the panel

Remove the bolts, and then take the panel off.




1. Panel A
2. Bolt

To install the panel

Place the panel in the original position and install the bolts.

EBU23211

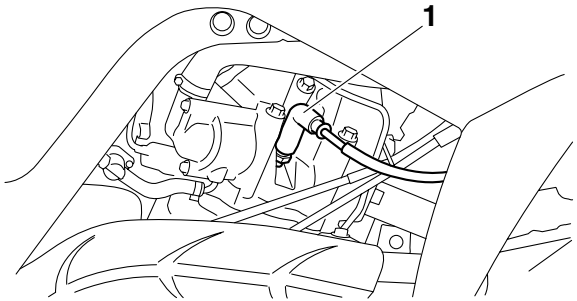
## Checking the spark plug

The spark plug is an important engine component, which is easy to check. Since heat and deposits will cause any spark plug to slowly erode, the spark

plug should be removed and checked in accordance with the periodic maintenance and lubrication chart. In addition, the condition of the spark plug can reveal the condition of the engine.

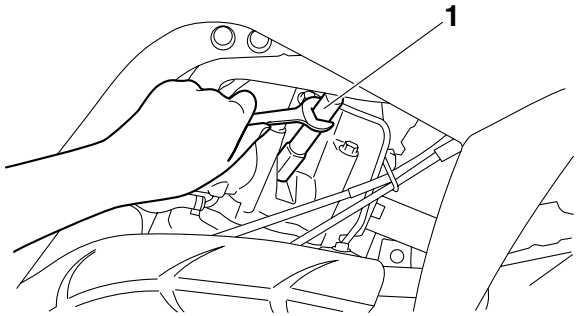
**To remove the spark plug**

1. Remove the spark plug cap.




1. Spark plug cap

2. Remove the spark plug as shown, with the spark plug wrench included in the owner's tool kit.




1. Spark plug wrench

**To check the spark plug**

1. Check that the porcelain insulator around the center electrode of the spark plug is a medium-to-light tan (the ideal color when the ATV is ridden normally).

**NOTE:**

If the spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the ATV.

2. Check the spark plug for electrode erosion and excessive carbon or other deposits, and

replace it if necessary.

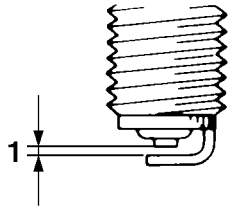
Specified spark plug:
NGK/CR8E

**To install the spark plug**

1. Measure the spark plug gap with a wire thickness gauge and, if necessary, adjust the gap to specification.

Spark plug gap:
0.7–0.8 mm (0.028–0.031 in)






1. Spark plug gap

2. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.
3. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.

Tightening torque:
Spark plug:
12.5 Nm (1.25 m·kgf, 9.1 ft·lbf)

**NOTE:**

If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/4–1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible.

4. Install the spark plug cap.

EBU26782

## Engine oil and oil filter element

The engine oil level should be checked before each ride. In addition, the oil must be changed and the oil filter element replaced at the intervals specified in the periodic maintenance and lubrication chart.

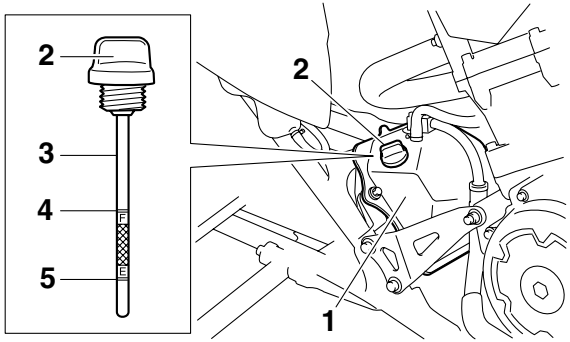
**To check the engine oil level**

1. Place the ATV on a level surface.
2. Start the engine, warm it up until the engine oil has reached a normal temperature of 60 °C (141 °F), let it continue to idle for ten seconds or more, and then turn the engine off.

**NOTE:**

To achieve the proper engine oil temperature for an accurate oil level reading, the engine must have first completely cooled down, and then warmed up again for several minutes to normal operating temperature.

3. Remove the engine oil tank filler cap, wipe the dipstick off with a clean rag.
4. Insert the dipstick in the filler hole (without screwing it in), and then remove it again to check the oil level.




1. Engine oil tank
2. Engine oil filler cap
3. Dipstick
4. Maximum level mark
5. Minimum level mark

**NOTE:**

The engine oil should be between the minimum and maximum level marks.

5. If the engine oil is at or below the minimum level mark, add sufficient oil of the recommended type through the engine oil tank filler hole to raise it to the correct level.

**NOTE:**

When adding oil, be careful not to overfill the engine oil tank; the oil level rises faster starting from the half-level-portion on the dipstick.

6. Insert the dipstick into the engine oil tank filler hole, and then tighten the engine oil tank filler cap.

ECB00360

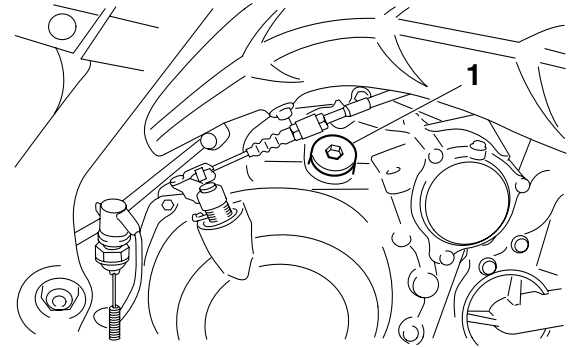
**CAUTION:**

**Make sure that the engine oil tank filler cap is securely tightened, otherwise oil may seep out when the engine is running.**

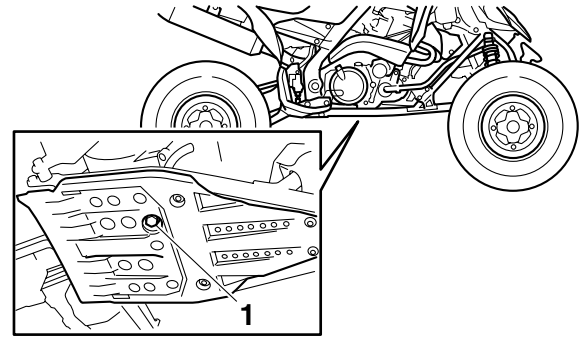


**To change the engine oil (with or without oil filter element replacement)**

1. Place the ATV on a level surface.
2. Start the engine, warm it up for several minutes, and then turn it off.
3. Place an oil pan under the engine to collect the used oil.
4. Remove the engine oil filler cap and the crankcase engine oil drain bolt.

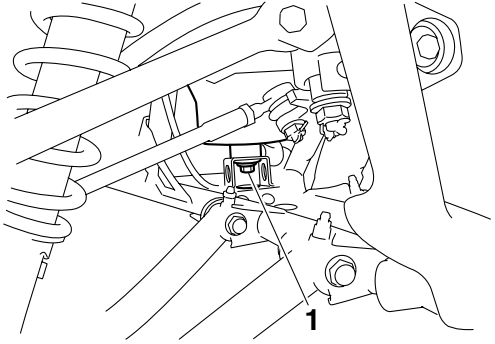



1. Crankcase engine oil filler cap




1. Crankcase engine oil drain bolt

5. Remove the engine oil tank filler cap and the engine oil tank drain bolt.

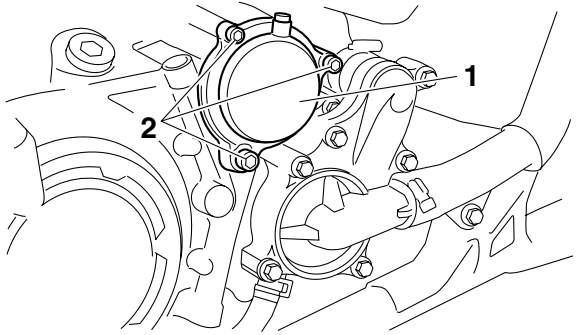



1. Engine oil tank drain bolt

6. Check the washers for damage, and replace if necessary.

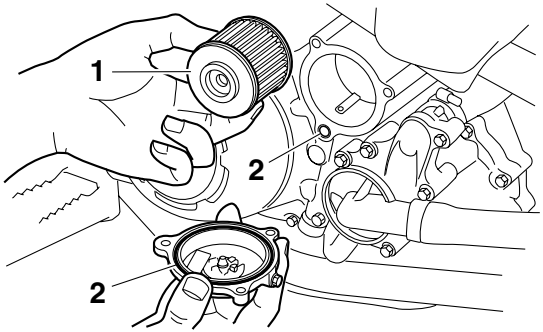
**NOTE:**
Skip steps 7–10 if the oil filter element is not being replaced.

7. Remove the oil filter element cover by removing the bolts, and then remove the oil filter element.




1. Oil filter element cover
2. Bolt

8. Check the O-rings for damage, and replace them if necessary.




1. Oil filter element
2. O-ring



9. Install a new oil filter element and the O-rings.

**NOTE:**
Make sure that the O-rings are properly seated.

10. Install the oil filter element cover by installing the bolts, and then tighten them to the specified torque.

Tightening torque:
Oil filter element cover bolt:
10 Nm (1.0 m·kgf, 7.2 ft·lbf)

11. Install the crankcase engine oil drain bolt and the engine oil tank drain bolt, and then tighten them to the specified torques.

Tightening torques:
Crankcase engine oil drain bolt:
23 Nm (2.3 m·kgf, 16.6 ft·lbf)
Engine oil tank drain bolt:
19 Nm (1.9 m·kgf, 13.7 ft·lbf)

12. Install the engine oil filler cap, and then tighten it to the specified torque.

Tightening torque:
Engine oil filler cap:
12 Nm (1.2 m·kgf, 8.7 ft·lbf)

13. Pour only 1.3 L (1.37 US qt, 1.16 Imp.qt) of the specified amount of the recommended engine oil through the engine oil tank filler hole, and then install and tighten the oil tank filler cap.
14. Start the engine, rev it several times, and then turn it off.
15. Remove the engine oil tank filler cap, and then gradually fill the oil tank with the remaining oil quantity while regularly checking the oil level on the dipstick.

16. Install and tighten the engine oil tank filler cap.

Recommended oil:
See page 10-1.
Oil quantity:
Without oil filter element replacement:
1.75 L (1.85 US qt) (1.54 Imp.qt)
With oil filter element replacement:
1.85 L (1.96 US qt) (1.63 Imp.qt)

**NOTE:**
Be sure to wipe off spilled oil on any parts after the engine and exhaust system have cooled down.

ECB00300
**CAUTION:**
- **In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II" or higher.**
- **Make sure that no foreign material enters the crankcase.**

17. Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.
18. Turn the engine off, and then check the oil level and correct it if necessary.

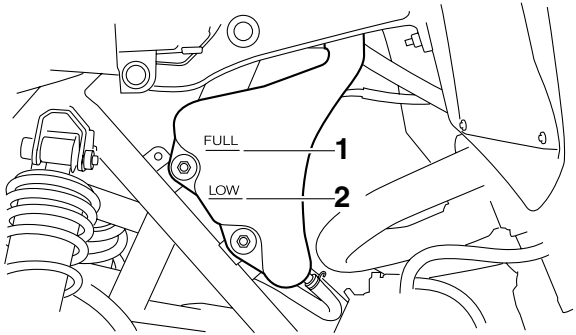
EBU23470
## Coolant
The coolant level should be checked before each ride. In addition, the coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart.

EBU23482
### To check the coolant level
1. Place the ATV on a level surface.

**NOTE:**
The coolant level must be checked on a cold engine since the level varies with engine temperature.

2. Check the coolant level in the coolant reservoir.

**NOTE:**
The coolant should be between the minimum and maximum level marks.




1. Maximum level mark
2. Minimum level mark



3. If the coolant is at or below the minimum level mark, remove the reservoir cap, add coolant or distilled water to the maximum level mark, and then install the reservoir cap.

Coolant reservoir capacity (up to the maximum level mark):
0.25 L (0.26 US qt) (0.22 Imp.qt)

ECB00401

**CAUTION:**

- **If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since it is harmful to the engine.**
- **If water has been used instead of coolant, replace it with coolant as soon as possible, otherwise the cooling system will not be protected against frost and corrosion.**
- **If water has been added to the coolant, have a Yamaha dealer check the antifreeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced.**

**NOTE:**

If the engine overheats, see page 8-49 for further instructions.

EBU23531

### To change the coolant

EWB01880

**⚠ WARNING**

**POTENTIAL HAZARD**

**Removing the radiator cap when the engine and radiator are still hot.**

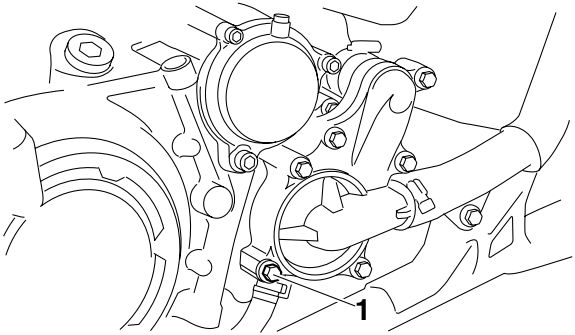
**WHAT CAN HAPPEN**

**You could be burned by hot fluid and steam blown out under pressure.**

**HOW TO AVOID THE HAZARD**

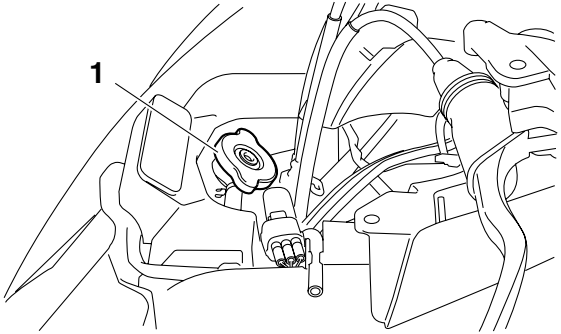
**Wait for the engine to cool before removing the radiator cap. Always place a thick rag over the cap. Allow any remaining pressure to escape before completely removing the cap.**

1. Place the ATV on a level surface.
2. Remove panel A. (See page 8-7.)
3. Place a container under the engine, and then remove the coolant drain bolt.



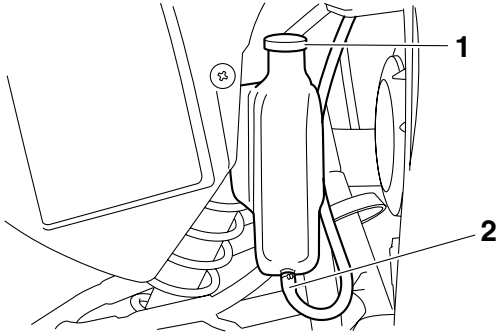

1. Coolant drain bolt

4. Remove the radiator cap.




1. Radiator cap

5. Remove the coolant reservoir cap.
6. Disconnect the hose on the coolant reservoir side, and then drain the coolant from the coolant reservoir.




1. Coolant reservoir cap
2. Hose



7. After draining the coolant, thoroughly flush the cooling system with clean tap water.
8. Replace the coolant drain bolt washer if it is damaged, and then tighten the coolant drain bolt to the specified torque.

Tightening torque:
Coolant drain bolt:
10 Nm (1.0 m·kgf, 7.2 ft·lbf)

9. Connect the coolant reservoir hose.
10. Pour the recommended coolant into the reservoir to the maximum level mark, and then install the reservoir cap.
11. Pour the recommended coolant into the radiator until it is full.

Antifreeze/water mixture ratio:
1:1
Recommended antifreeze:
High-quality ethylene glycol antifreeze containing corrosion inhibitors for aluminum engines
Coolant quantity:
Radiator capacity (including all routes):
1.61 L (1.70 US qt) (1.42 Imp.qt)
Coolant reservoir capacity (up to the maximum level mark):
0.25 L (0.26 US qt) (0.22 Imp.qt)

ECB00401

**CAUTION:**

- **If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since it is harmful to the engine.**
- **If water has been used instead of coolant, replace it with coolant as soon as possible, otherwise the cooling system will not be pro-**

**tected against frost and corrosion.**

- **If water has been added to the coolant, have a Yamaha dealer check the antifreeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced.**

12. Install the radiator cap, start the engine, let it idle for several minutes, and then turn it off.
13. Remove the radiator cap to check the coolant level in the radiator. If it is low, add sufficient coolant until it reaches the top of the radiator, and then install the radiator cap.
14. Start the engine, and then check for coolant leakage.

**NOTE:**

If any leakage is found, have a Yamaha dealer check the cooling system.

15. Install the panel.

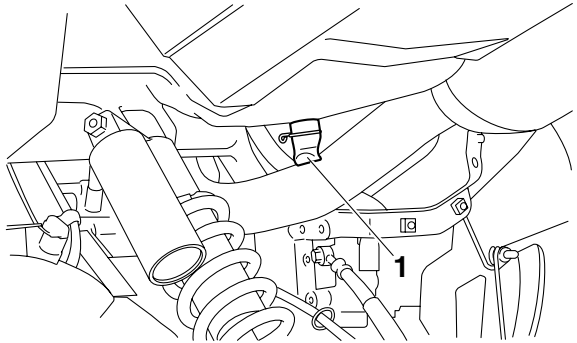
EBU26791

## Cleaning the air filter element

The air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Clean the air filter element more frequently if you are riding in unusually wet or dusty areas.

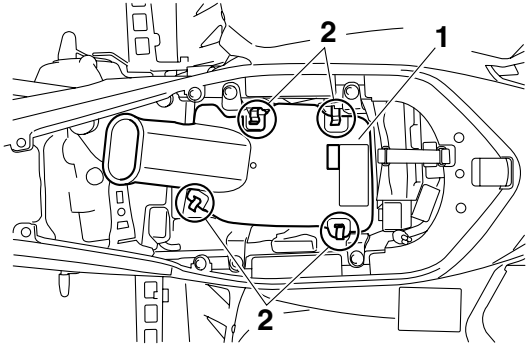
**NOTE:**

There is a check hose at the bottom of the air filter case. If dust or water collects in this hose, empty the hose and clean the air filter element and air filter case.

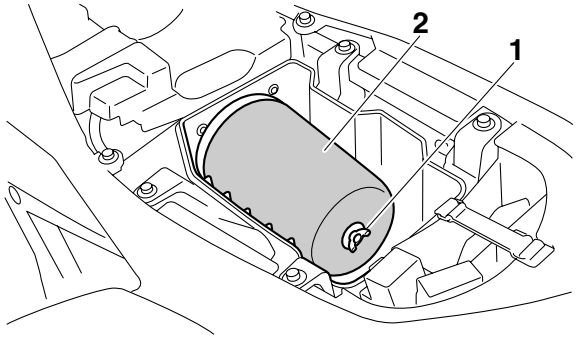



1. Air filter case check hose

1. Remove the seat. (See page 4-11.)
2. Remove the air filter case cover by unhooking the holders.



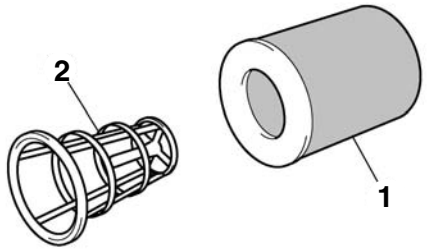

1. Air filter case cover
2. Air filter case cover holder




1. Wing bolt
2. Air filter element

8

3. Loosen the wing bolt.
4. Remove the air filter element together with the wing bolt and washer.
5. Remove the wing bolt and washer from the air filter element.
6. Remove the sponge material from the air filter element frame.




1. Sponge material
2. Air filter element frame

7. Wash the sponge material gently but thoroughly in solvent.

EWB01900

**⚠ WARNING**

**POTENTIAL HAZARD**

**Using low-flash-point solvents or gasoline to clean the sponge material.**

**WHAT CAN HAPPEN**

**Low-flash-point solvents or gasoline can catch fire or explode.**

**HOW TO AVOID THE HAZARD**

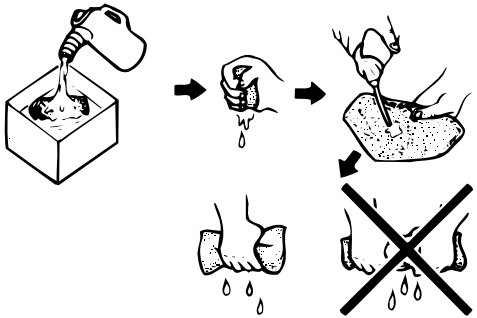
**Use parts cleaning solvent to clean the sponge material.**

8. Squeeze the excess solvent out of the sponge material and let it dry.

ECB00440

**CAUTION:**

**Do not twist the sponge material when squeezing it.**



9. Check the sponge material and replace it if damaged.
10. Apply Yamaha foam air filter oil or other quality foam air filter oil to the sponge material.

**NOTE:**

The sponge material should be wet but not dripping.

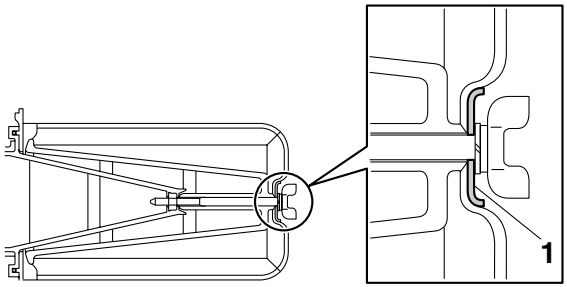
11. Pull the sponge material over the air filter element frame.
12. Install the washer onto the air filter element frame, and then insert the wing bolt into the hole in the air filter element frame.

ECB00451

**CAUTION:**

**Be sure to install the washer with the bent edge facing outward as shown.**






1. Washer

13. Insert the air filter element into the air filter case, and then tighten the wing bolt.
14. Install the air filter case cover by hooking the holders onto the air filter case.
15. Install the seat.

**NOTE:**

The air filter element should be cleaned every 20–40 hours. It should be cleaned and lubricated more often if the ATV is operated in extremely dusty areas. Each time the air filter element maintenance is performed, check the air inlet of the air filter case for obstructions. Check the air filter case rubber joint to the throttle body and the rubber joint manifold fittings for an air-tight seal. Tighten all fittings securely to avoid the possibility of unfiltered air entering the engine.

ECB00760

**CAUTION:**

- **Make sure that the air filter element is properly seated in the air filter case.**
- **Never operate the engine with the air filter element removed. This will allow unfiltered air to enter the engine, causing rapid engine wear and possible engine damage. Additionally, operation without the air filter element**

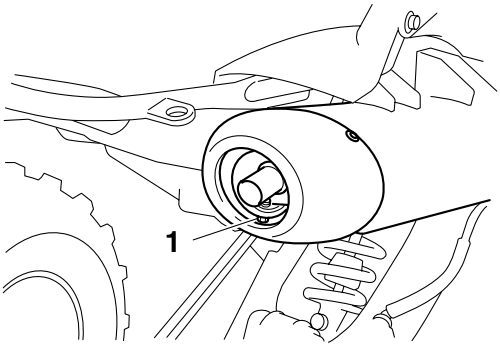
**will affect the fuel injection system with subsequent poor performance and possible engine overheating.**

EBU23872

## Cleaning the spark arrester

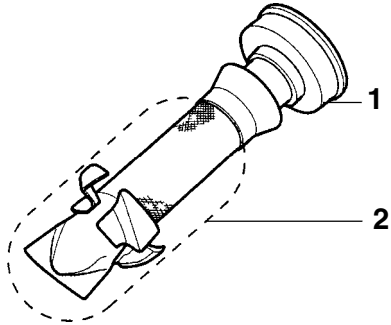
Select a well-ventilated area free of combustible materials and make sure the exhaust and muffler are cool.

1. Remove the bolt.



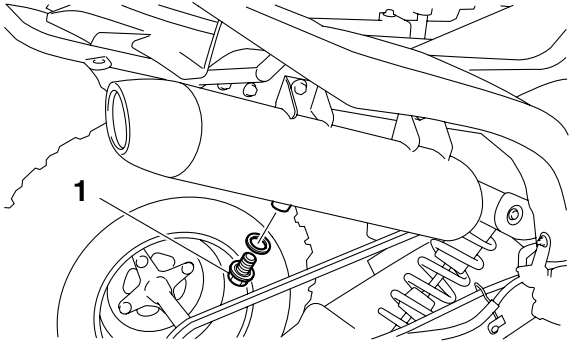

1. Bolt

2. Remove the tailpipe by pulling it out of the muffler.
3. Tap the tailpipe lightly, and then use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe and inside of the tailpipe housing.




1. Tailpipe
2. Spark arrester

4. Insert the tailpipe into the muffler and align the bolt holes.
5. Install the bolt and tighten it.
6. Remove the purging bolt.




1. Purging bolt

7. Start the engine and rev it up approximately twenty times while momentarily creating exhaust system back pressure by blocking the end of the muffler with a shop towel.
8. Stop the engine and allow the exhaust pipe to cool.
9. Install the purging bolt and tighten it.

EWB01930

**⚠ WARNING**

**POTENTIAL HAZARD**
**Improperly purging the exhaust system.**
**Hot exhaust system.**

**WHAT CAN HAPPEN**
**Could injure the eyes.**
**Could cause burns.**
**Could cause carbon monoxide poisoning, possibly leading to death.**
**Could start a fire.**
**HOW TO AVOID THE HAZARD**
**When purging the exhaust system:**
**Always let the exhaust system cool prior to touching exhaust components.**
**Always wear eye protection, and make sure no one is behind the ATV.**
**Never run the engine in an enclosed area.**
**Make sure there are no combustible materials in the area.**

EBU26810

## Adjusting the engine idling speed

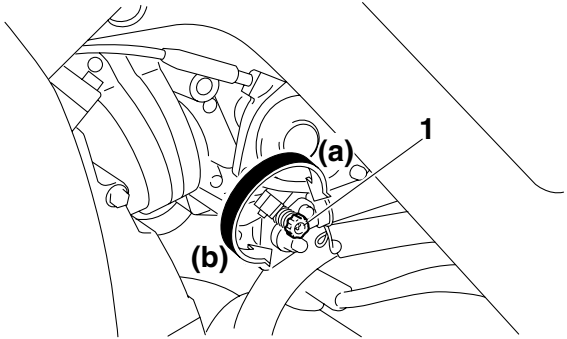
The engine idling speed must be checked and, if necessary, adjusted as follows at the intervals specified in the periodic maintenance and lubrication chart.

**NOTE:**
A diagnostic tachometer is needed to make this adjustment.

1. Start the engine and warm it up.

**NOTE:**
The engine is warm when it quickly responds to the throttle.

2. Attach the tachometer to the spark plug lead.
3. Check the engine idling speed and, if necessary, adjust it to specification by turning the idle adjusting screw. To increase the engine idling speed, turn the idle adjusting screw in direction (a), and to decrease it, turn the screw in direction (b).




1. Idle adjusting screw

Engine idling speed:
1500–1700 r/min

**NOTE:**
If the specified idling speed cannot be obtained as described above, have a Yamaha dealer make the adjustment.

EBU24043

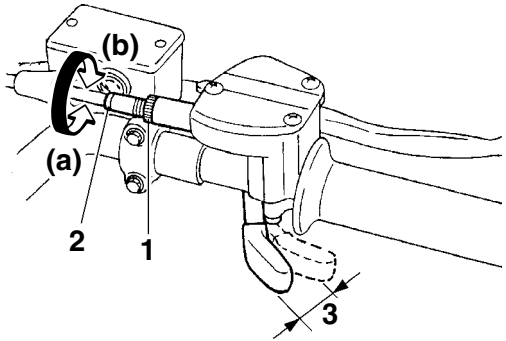
## Adjusting the throttle cable free play

The throttle cable free play should be checked and, if necessary, adjusted at the intervals specified in the periodic maintenance and lubrication chart.
The throttle cable free play should measure 2.0–4.0 mm (0.08–0.16 in) at the throttle lever. Periodically check the throttle cable free play and, if necessary, adjust it as follows.

**NOTE:**
The engine idling speed must be checked, and adjusted if necessary, before adjusting the throttle cable free play.

1. Loosen the locknut.
2. To increase the throttle cable free play, turn the adjusting bolt in direction (a). To decrease

the throttle cable free play, turn the adjusting bolt in direction (b).




1. Locknut
2. Throttle lever free play adjusting bolt
3. Throttle lever free play



3. Tighten the locknut.

EBU24060

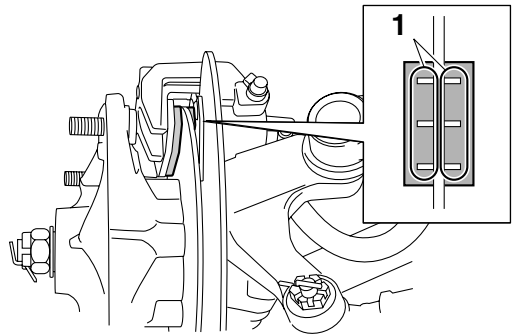
## Valve clearance

The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To prevent this from occurring, the valve clearance must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

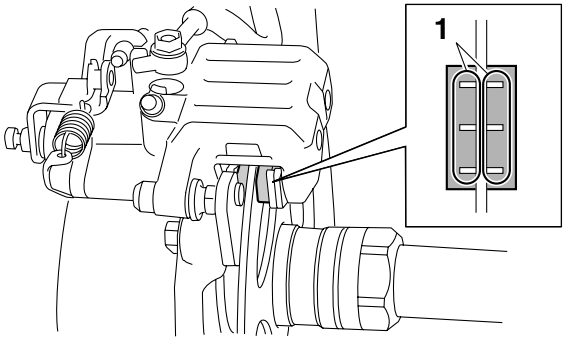
EBU24110

## Checking the front and rear brake pads

The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart. Each brake pad is provided with wear indicator grooves, which allow you to check the brake pad wear without having to disassemble the brake. If a brake pad has worn to the point that the wear indicator grooves have almost disappeared, have a Yamaha dealer replace the brake pads as a set.




1. Wear indicator groove




1. Wear indicator groove

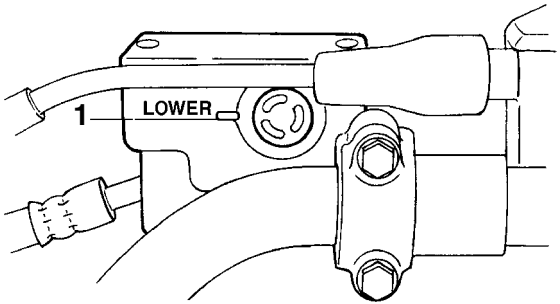
EBU26821

## Checking the brake fluid level

Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective.

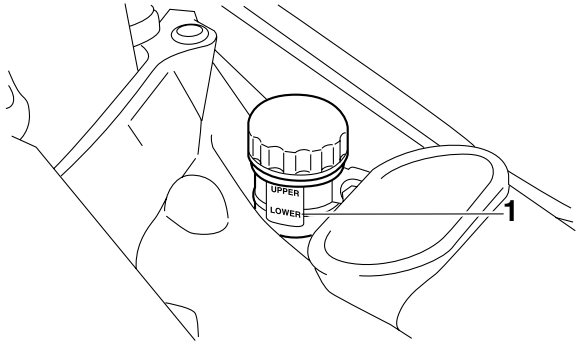
Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.

**Front brake**




1. Minimum level mark

**Rear brake**



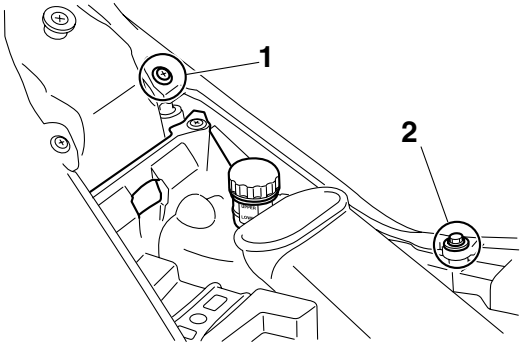

1. Minimum level mark

**NOTE:**

To check the rear brake fluid level, remove the seat. (See page 4-11.)

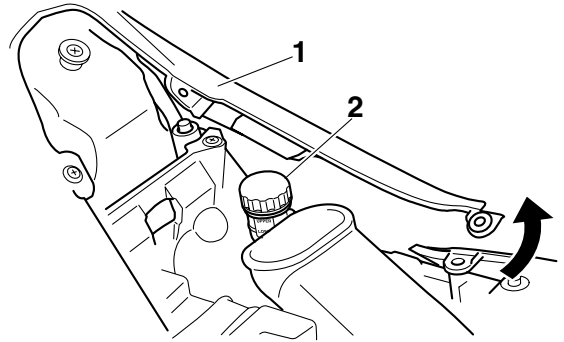
If the rear brake fluid level is low, replenish as follows.

1. Remove the cowling bolt and quick fastener.




1. Quick fastener
2. Bolt

2. Pull the cowling slightly outward as shown.




1. Cowling
2. Brake fluid reservoir cap

3. Remove the brake fluid reservoir cap, and then refill with brake fluid.
4. Install the brake fluid reservoir cap.
5. Place the cowling in the original position, and then install the bolt and quick fastener.

Observe these precautions:

- When checking the fluid level, make sure that the top of the brake fluid reservoir is level.
- Use only the recommended quality brake fluid, otherwise the rubber seals may deteriorate, causing leakage and poor braking performance.

Recommended brake fluid:
DOT 4

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.
- Be careful that water does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- As the brake pads wear, it is normal for the brake fluid level to gradually go down. However, if the brake fluid level goes down suddenly, have a Yamaha dealer check the cause.

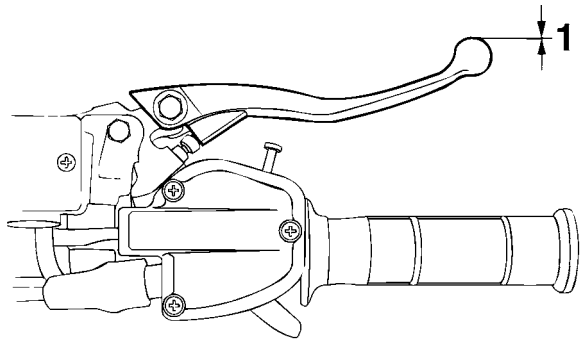
EBU24290
## Changing the brake fluid

Have a Yamaha dealer change the brake fluid at the intervals specified in the NOTE after the periodic maintenance and lubrication chart. In addition, have the oil seals of the master cylinders and calipers as well as the brake hoses replaced at the intervals listed below or whenever they are damaged or leaking.

- Oil seals: Replace every two years.
- Brake hoses: Replace every four years.

EBU24380
## Checking the front brake lever free play

The brake lever free play must be checked at the intervals specified in the periodic maintenance and lubrication chart. The brake lever should have a free play of zero mm (zero in) as shown. If the free play is incorrect, have a Yamaha dealer check the brake system.




1. Brake lever free play

EWB02010

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating with improperly serviced or adjusted brakes.**

**WHAT CAN HAPPEN**

**You could lose braking ability, which could lead to an accident.**

**HOW TO AVOID THE HAZARD**

**After servicing:**

- **Make sure the brakes operate smoothly and that the free play is correct.**
- **Make sure the brakes do not drag.**
- **Make sure the brakes are not spongy. All air must be bled from the brake system.**

**Replacement of brake components requires professional knowledge. These procedures should be performed by a Yamaha dealer.**

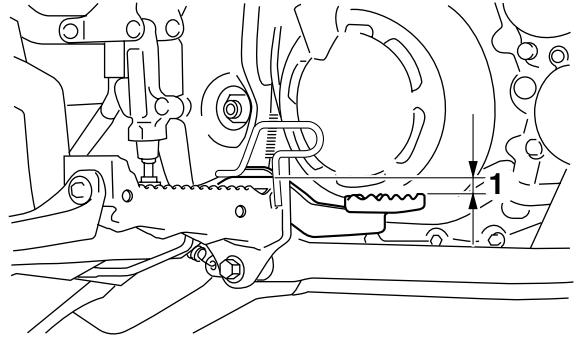


EBU24601

## Checking the brake pedal position

The brake pedal position must be checked and, if necessary, adjusted at the intervals specified in the periodic maintenance and lubrication chart.

The top of the brake pedal should be positioned 15.3 mm (0.60 in) below the top of the footrest as shown. If the brake pedal is not positioned as specified, have a Yamaha dealer adjust it.




1. Brake pedal position

EWB02060

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating with improperly serviced or adjusted brakes.**

**WHAT CAN HAPPEN**

**You could lose braking ability, which could lead to an accident.**

**HOW TO AVOID THE HAZARD**

**After servicing:**

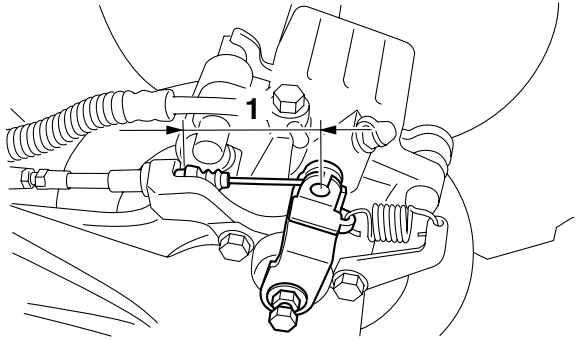
- **Make sure the brakes operate smoothly and that the brake pedal position is correct.**
- **Make sure the brakes do not drag.**
- **Make sure the brakes are not spongy. All air must be bled from the brake system.**

**Replacement of brake components requires professional knowledge. These procedures should be performed by a Yamaha dealer.**

EBU26840

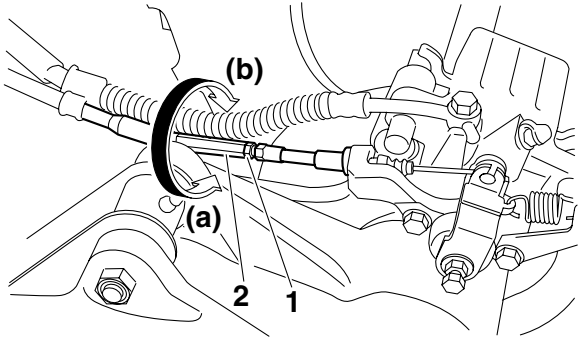
## Adjusting the parking brake free play

The parking brake free play must be checked and, if necessary, adjusted at the intervals specified in the periodic maintenance and lubrication chart. Cable length “A” should measure 58–60 mm (2.28–2.36 in). Adjust the parking brake free play as follows.




1. Cable length “A”

1. Release the parking brake by moving the parking brake lever to the right.
2. Loosen the locknut on the brake cable.
3. Turn the adjusting nut on the brake cable in direction (a) to increase the cable length, and in direction (b) to decrease it.




1. Locknut
2. Brake lever free play adjusting nut



**NOTE:**
If the cable length cannot be adjusted to specification, consult a Yamaha dealer.

4. Tighten the locknut on the brake cable.

EWB02030

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operating with improperly serviced or adjusted brakes.**

**WHAT CAN HAPPEN**

**The brakes could malfunction, causing reduced braking performance. This could increase the chance of a collision or accident.**

**HOW TO AVOID THE HAZARD**

**After adjusting the parking brake free play, block the rear of the ATV off the ground and spin the rear wheels. Check to make sure there is no brake drag. If brake drag is noticed, perform the adjustment again.**

EBU24740

## Brake light switches

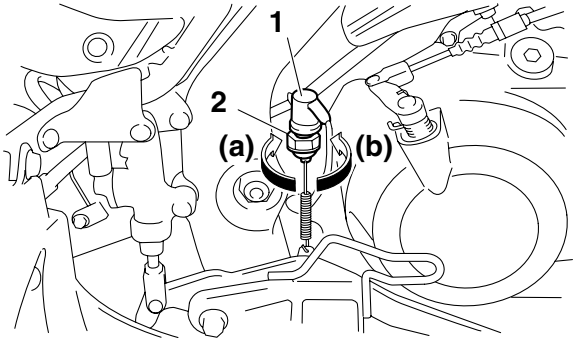
The operation of the brake light switches must be checked and, if necessary, adjusted at the intervals specified in the periodic maintenance and lubrication chart.

The brake light switch for the brake pedal can be adjusted as follows, but the other brake light switches should be adjusted by a Yamaha dealer.

**NOTE:**
The brake light switch is properly adjusted when the brake light comes on just before braking takes effect.

Turn the adjusting nut while holding the brake light

switch in place. To make the brake light come on earlier, turn the adjusting nut in direction (a). To make the brake light come on later, turn the adjusting nut in direction (b).



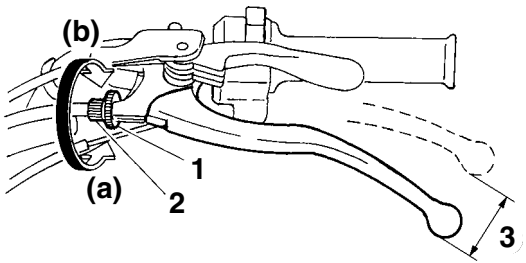

1. Brake light switch
2. Brake light switch adjusting nut

EBU24820

## Adjusting the clutch lever free play

The clutch lever free play must be checked and, if necessary, adjusted at the intervals specified in the periodic maintenance and lubrication chart.

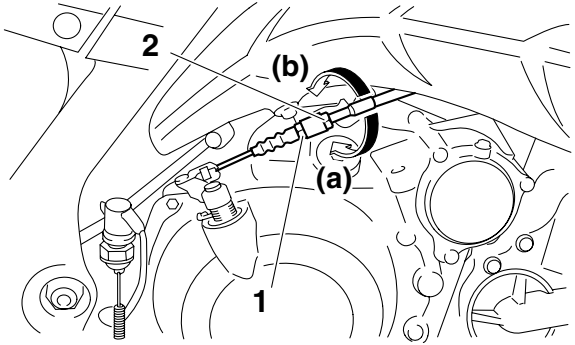
The clutch lever free play should measure 5.0–10.0 mm (0.20–0.39 in) as shown. If the free play is incorrect, adjust it as follows.




1. Locknut
2. Clutch lever free play adjusting bolt
3. Clutch lever free play

1. Loosen the locknut at the clutch lever.
2. To increase the clutch lever free play, turn the adjusting bolt at the clutch lever in direction (a), and to decrease it, turn the bolt in direction (b).
3. Tighten the locknut at the clutch lever.
   If the specified free play cannot be obtained, proceed with the following steps.
4. Loosen the locknut at the clutch lever.
5. Fully turn the adjusting bolt at the clutch lever in direction (a) to loosen the clutch cable.
6. Loosen the locknut at the crankcase.
7. To increase the clutch lever free play, turn the adjusting nut at the crankcase in direction (a),

and to decrease it, turn the nut in direction (b).




1. Clutch lever free play adjusting nut (crankcase)
2. Locknut



8. Tighten the locknut at the crankcase and the clutch lever.

**NOTE:**

If the specified free play cannot be obtained as described above or if the clutch does not operate correctly, have a Yamaha dealer check the internal clutch mechanism.

EBU26861

## Drive chain slack

The drive chain slack should be checked before each ride and adjusted if necessary.

**To check the drive chain slack**

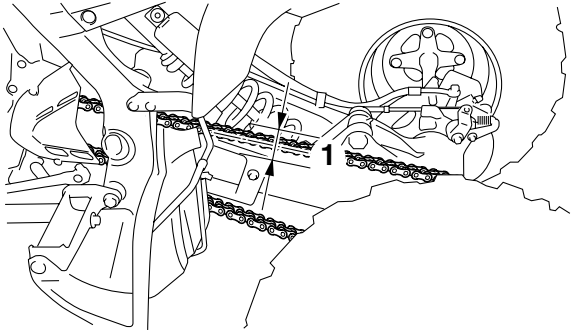
1. Place the ATV on a level surface.

**NOTE:**

When checking and adjusting the drive chain slack, there should be no weight on the ATV and all tires must be touching the ground.

2. Move the ATV back and forth to locate the tightest portion of the drive chain, and then measure the drive chain slack as shown.

Drive chain slack:
25.0–35.0 mm (0.98–1.38 in)

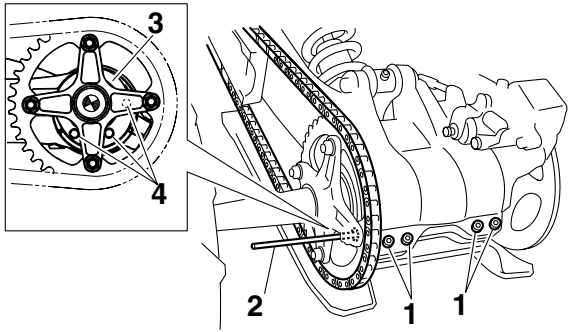



1. Drive chain slack

3. If the drive chain slack is incorrect, adjust it as follows.

**To adjust the drive chain slack**

1. Loosen the rear axle pinch bolts.
2. Insert a rod of a diameter of 8 mm (0.3 in) and a length of 10 cm (4 in) into one of the holes in the drive chain tensioner as shown.




1. Rear wheel axle pinch bolt
2. Rod
3. Drive chain tensioner
4. Hole

**NOTE:**

A rod can be obtained at a Yamaha dealer to make this adjustment.

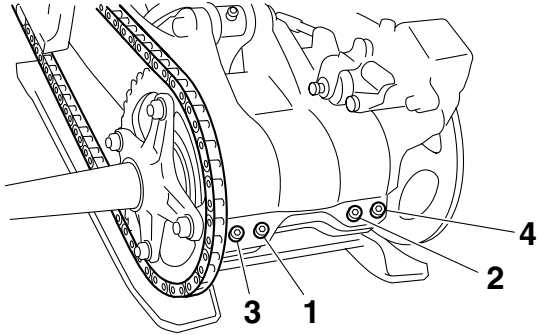
3. Shift the transmission into neutral.
4. To tighten the drive chain, push the ATV backward. To loosen the drive chain, push the ATV forward.

ECB00541

**CAUTION:**

**Improper drive chain slack will overload the engine as well as other vital parts of the ATV and can lead to drive chain slippage or breakage. To prevent this from occurring, keep the drive chain slack within the specified limits.**

5. Pull the rod out, and then tighten the rear axle pinch bolts to the specified torque in the order shown.

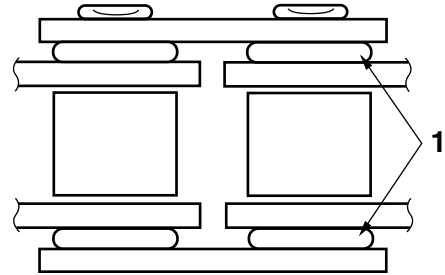



Tightening torque:
Rear axle pinch bolt:
21 Nm (2.1 m·kgf, 15.2 ft·lbf)

EBU24880

## Lubricating the drive chain

The drive chain must be cleaned and lubricated at the intervals specified in the periodic maintenance and lubrication chart, otherwise it will quickly wear out, especially when riding in dusty or wet areas. Service the drive chain as follows.




1. O-ring

ECB00560

**CAUTION:**

**The drive chain must be lubricated after washing the ATV or riding in the rain.**

1. Clean the drive chain with kerosene and a

small soft brush.

ECB00570

**CAUTION:**

**To prevent damaging the O-rings, do not clean the drive chain with steam cleaners, high-pressure washers or inappropriate solvents.**

2. Wipe the drive chain dry.
3. Thoroughly lubricate the drive chain with a special O-ring chain lubricant.

ECB00580

**CAUTION:**

**Do not use engine oil or any other lubricants for the drive chain, as they may contain substances that could damage the O-rings.**

EBU24890

## Checking and lubricating the cables

The operation and the condition of all control cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it.

Recommended lubricant:
Engine oil

EWB02120

**WARNING**

**POTENTIAL HAZARD**

**Damaged control cables.**

**WHAT CAN HAPPEN**

**Corrosion can result when the cable sheaths become damaged, and cables can also become frayed or kinked, which could restrict the operation of controls and lead to an accident or injury.**

**HOW TO AVOID THE HAZARD**

**Inspect cables frequently. Replace damaged cables.**

EBU24921

## Checking and lubricating the brake and clutch levers

The operation of the brake and clutch levers should be checked before each ride, and the lever pivots should be lubricated if necessary.

Recommended lubricants:
Brake lever:
Silicone grease
Clutch lever:
Lithium-soap-based grease (all-purpose grease)

EBU24931
## Checking and lubricating the brake and shift pedals

The operation of the brake and shift pedals should be checked before each ride, and the pedal pivots should be lubricated if necessary.



Recommended lubricants:
Brake pedal:
Silicone grease
Shift pedal:
Lithium-soap-based grease (all-purpose grease)

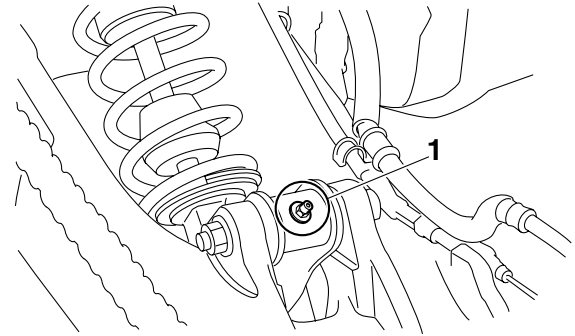
EBU24962
## Checking the wheel hub bearings

The front and rear wheel hub bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart. If there is play in a wheel hub or if a wheel does not turn smoothly, have a Yamaha dealer check the wheel hub bearings.

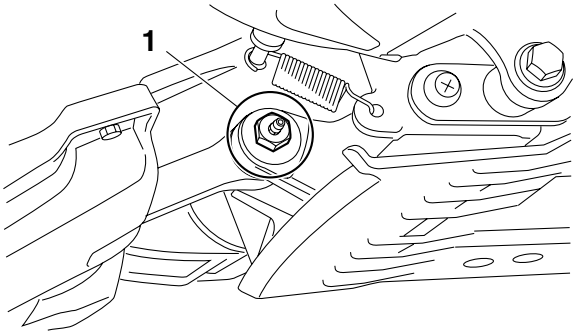
EBU24992
## Lubricating the swingarm pivots

The swingarm pivots must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.

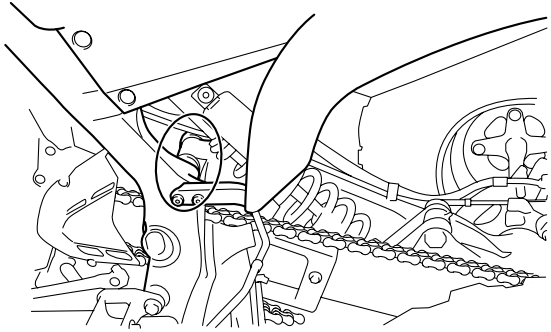
Recommended lubricant:
Lithium-soap-based grease

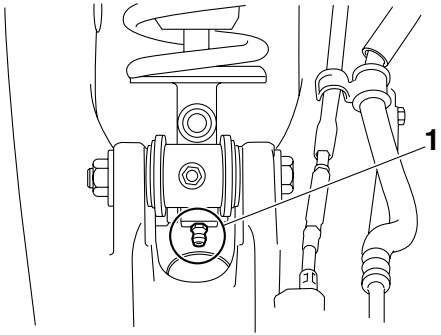



1. Grease nipple




1. Grease nipple





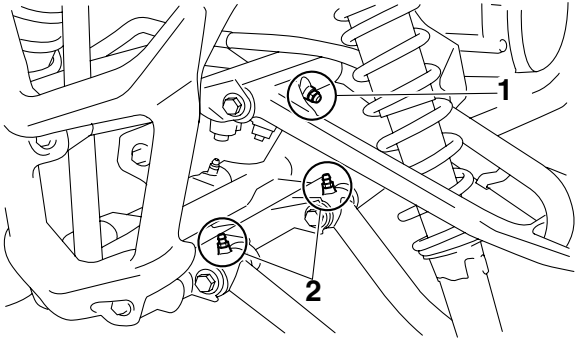

1. Grease nipple

EBU25030
## Lubricating the upper and lower arm pivots

The upper and lower arm pivots must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.
Lubricate the pivoting points using a grease gun.

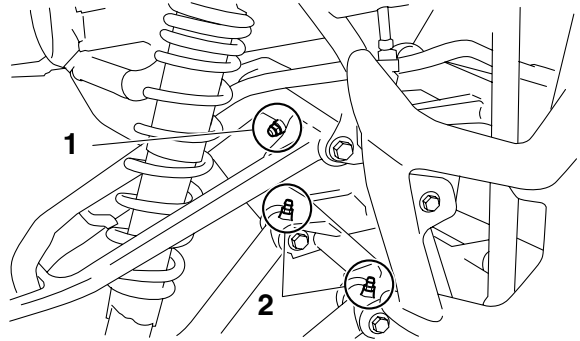
Recommended lubricant:
Lithium-soap-based grease

**Left side**




1. Upper grease nipple
2. Lower grease nipple

**Right side**




1. Upper grease nipple
2. Lower grease nipple



EBU25212

## Battery

This model is equipped with a sealed-type (MF) battery, which does not require any maintenance. There is no need to check the electrolyte or to add distilled water. Check and, if necessary, tighten the battery lead connections.

ECB00620

**CAUTION:**

**Never attempt to remove the battery cell seals, as this would permanently damage the battery.**

EWB02140

**⚠ WARNING**

**POTENTIAL HAZARD**

**Failure to handle batteries or battery electrolyte carefully.**

**WHAT CAN HAPPEN**

**You could be poisoned. You could be severely burned by the sulfuric acid in battery electrolyte. Batteries produce explosive gases.**

**HOW TO AVOID THE HAZARD**

**Avoid contact with skin, eyes or clothing. Always shield eyes when working near batteries. Keep out of reach of children.**

**Antidote:**

**EXTERNAL: Flush with water.**

**INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Get prompt medical attention.**

**EYES: Flush with water for 15 minutes and get prompt medical attention. Keep batteries away from sparks, flames, cigarettes or other sources of ignition. Ventilate when charging or using in a closed space.**

**To charge the battery**

Have a Yamaha dealer charge the battery as soon as possible if it seems to have discharged. Keep in mind that the battery tends to discharge more quickly if the ATV is equipped with optional electrical accessories.

**To store the battery**

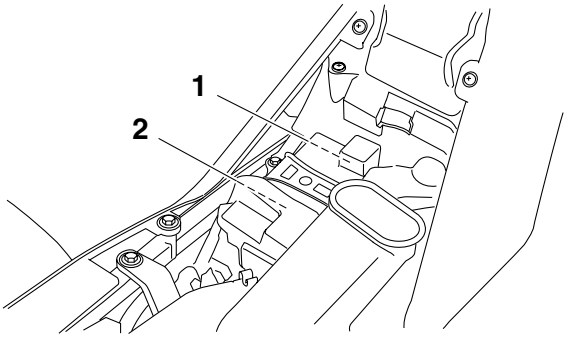
1. If the ATV will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
2. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.

**To install the battery**

**NOTE:**

Be sure the battery is fully charged.

1. Place the battery in its compartment.
2. Make sure to properly connect the battery leads to the battery terminals.




1. Negative lead
2. Positive lead

ECB00630

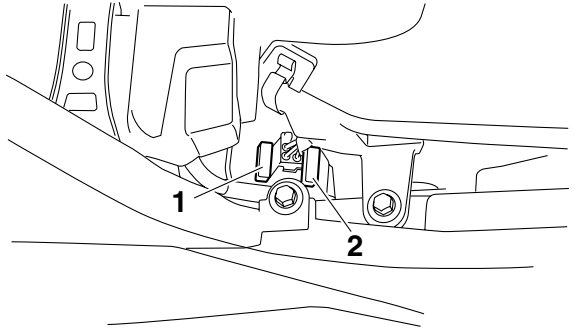
8

**CAUTION:**

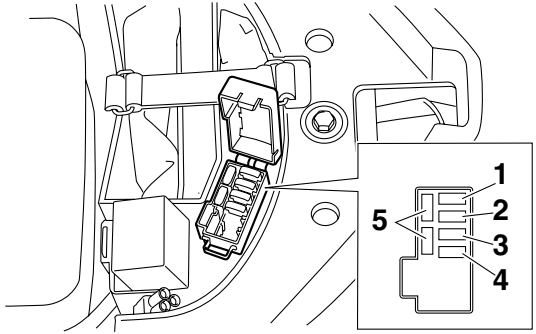
- **Always keep the battery charged. Storing a discharged battery can cause permanent battery damage.**
- **To charge a sealed-type (MF) battery, a special constant-voltage battery charger is required. Using a conventional battery charger will damage the battery. If you do not have access to a constant-voltage battery charger, have a Yamaha dealer charge your battery.**

EBU25313

## Replacing a fuse




1. Main fuse
2. Spare main fuse




1. Signaling system fuse
2. Headlight fuse
3. Ignition fuse
4. Fuel injection system fuse
5. Spare fuse

The main fuse and the fuse box are located under the seat. (See page 4-11.)
If a fuse is blown, replace it as follows.

1. Turn the key to “OFF” and turn off all electrical circuits.

ECB00640

**CAUTION:**

**To prevent accidental short-circuiting, turn off the main switch when checking or replacing a fuse.**

2. Remove the blown fuse, and then install a new fuse of the specified amperage.

Specified fuses:
- Main fuse: 20.0 A
- Headlight fuse: 15.0 A
- Ignition fuse: 10.0 A
- Signaling system fuse: 10.0 A
- Fuel injection system fuse: 10.0 A

EWB02151

**⚠ WARNING**

**POTENTIAL HAZARD**

**Using an improper fuse.**

**WHAT CAN HAPPEN**

**An improper fuse can cause damage to the electrical system, which could lead to a fire.**

**HOW TO AVOID THE HAZARD**

**Always use a fuse of the specified rating. Never use a material in place of the proper fuse.**

3. Turn the key to "ON" and turn on the electrical circuits to check if the devices operate.
4. If the fuse immediately blows again, have a Yamaha dealer check the electrical system.

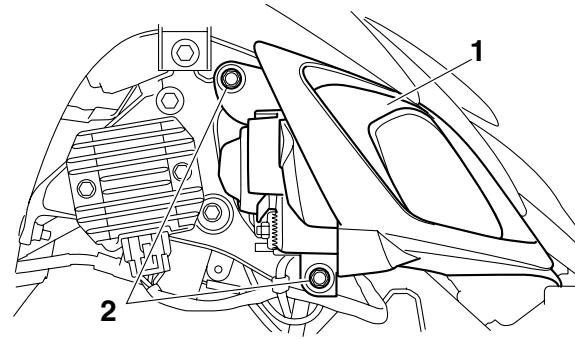
8

EBU25430

## Replacing a headlight bulb

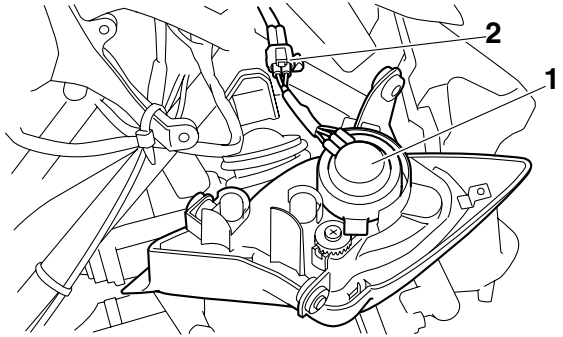
If a headlight bulb burns out, replace it as follows.

1. Remove the headlight unit by removing the bolts.



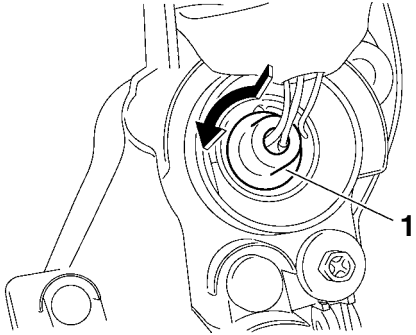

1. Headlight assembly
2. Bolt

2. Disconnect the headlight coupler.
3. Remove the headlight bulb holder cover.




1. Headlight bulb holder cover
2. Headlight coupler

4. Remove the headlight bulb holder by pushing it in and turning it counterclockwise, and then remove the defective bulb.



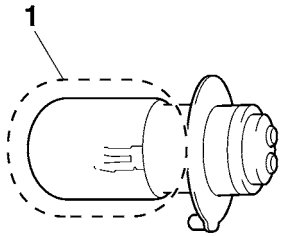

1. Headlight bulb holder

EWB02180

**⚠ WARNING**

**POTENTIAL HAZARD**
**A headlight bulb is hot when it is on and immediately after it is turned off.**
**WHAT CAN HAPPEN**
**You can be burned, or a fire could start if the bulb touches something flammable.**
**HOW TO AVOID THE HAZARD**
**Wait for the bulb to cool before touching or removing it.**

5. Place a new headlight bulb into position.




1. Do not touch the glass part of the bulb.

ECB00650

**CAUTION:**

**Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.**

6. Install the headlight bulb holder by pushing it in and turning it clockwise.
7. Install the headlight bulb holder cover.
8. Connect the headlight coupler.
9. Install the headlight unit by installing the bolts.
10. Adjust the headlight beam if necessary.

EBU25560

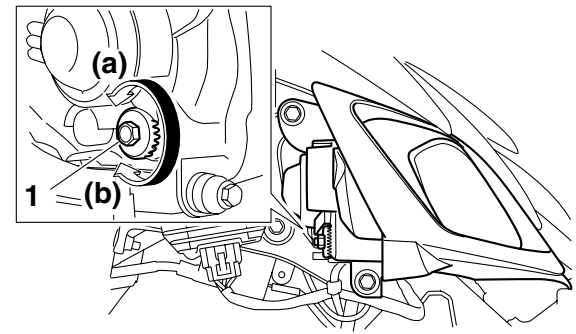
## Adjusting a headlight beam

ECB00690

**CAUTION:**

**It is advisable to have a Yamaha dealer make this adjustment.**

To raise a headlight beam, turn the adjusting bolt in direction (a).
To lower a headlight beam, turn the adjusting bolt in direction (b).




1. Headlight beam adjusting bolt

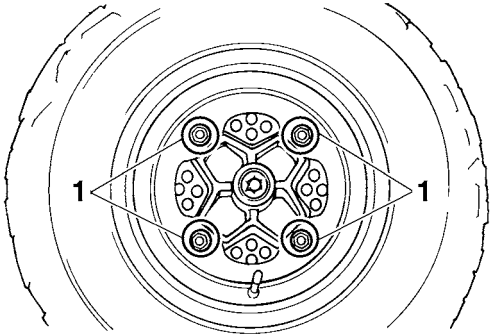
EBU26920
## Tail/brake light

This model is equipped with an LED type of tail/brake light.
If the tail/brake light does not come on, have a Yamaha dealer check it.

EBU25650
## Removing a wheel

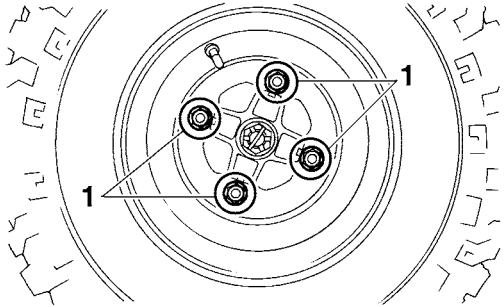
1. Loosen the wheel nuts.

**Front**




1. Nut

**Rear**




1. Nut

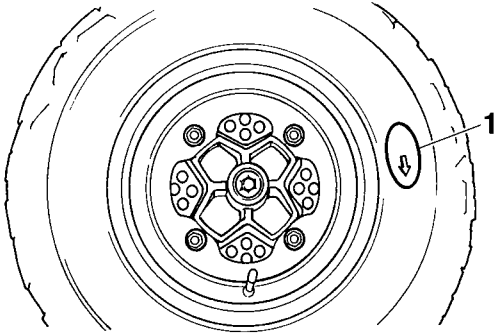
2. Elevate the ATV and place a suitable stand under the frame.
3. Remove the nuts from the wheel.
4. Remove the wheel.

EBU27480
## Installing a wheel

1. Install the wheel and the nuts.

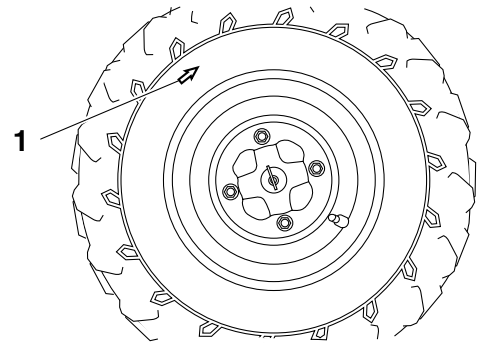
**NOTE:**
When installing the wheel, make sure its arrow mark ⇨ points toward the rotating direction of the wheel.

**Front**




1. Arrow mark

**Rear**




1. Arrow mark



2. Lower the ATV to the ground.
3. Tighten the wheel nuts to the specified torques.

Tightening torques:
Front wheel nut:
45 Nm (4.5 m·kgf, 33 ft·lbf)
Rear wheel nut:
45 Nm (4.5 m·kgf, 33 ft·lbf)

EBU25730
## Troubleshooting

Although Yamaha ATVs receive a thorough inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems, for example, can cause poor starting and loss of power.

The following troubleshooting charts represent quick and easy procedures for checking these vital systems yourself. However, should your ATV require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the ATV properly. Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.

EWB02260

**⚠ WARNING**

**POTENTIAL HAZARD**

**Checking the fuel system while smoking or near an open flame.**

**WHAT CAN HAPPEN**

**Fuel can ignite or explode, causing severe injury or property damage.**

**HOW TO AVOID THE HAZARD**

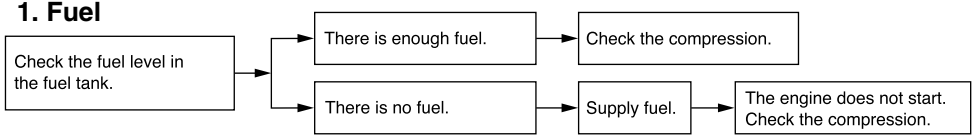
**Do not smoke when checking the fuel system. Make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces.**

EBU27680

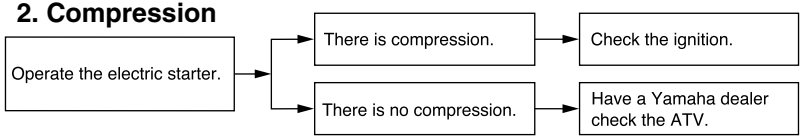
# Troubleshooting charts

## Starting problems or poor engine performance

### 1. Fuel

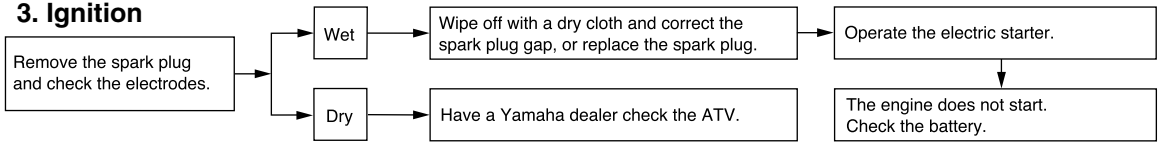

Check the fuel level in the fuel tank.
There is enough fuel.
Check the compression.
There is no fuel.
Supply fuel.
The engine does not start. Check the compression.

### 2. Compression

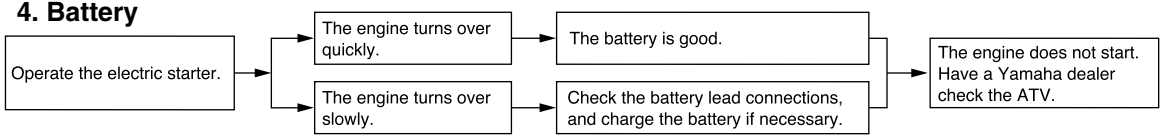

Operate the electric starter.
There is compression.
Check the ignition.
There is no compression.
Have a Yamaha dealer check the ATV.



### 3. Ignition


Remove the spark plug and check the electrodes.
Wet
Wipe off with a dry cloth and correct the spark plug gap, or replace the spark plug.
Operate the electric starter.
Dry
Have a Yamaha dealer check the ATV.
The engine does not start. Check the battery.

### 4. Battery


Operate the electric starter.
The engine turns over quickly.
The battery is good.
The engine does not start. Have a Yamaha dealer check the ATV.
The engine turns over slowly.
Check the battery lead connections, and charge the battery if necessary.

## Engine overheating

EWB02270

**⚠ WARNING**

**POTENTIAL HAZARD**

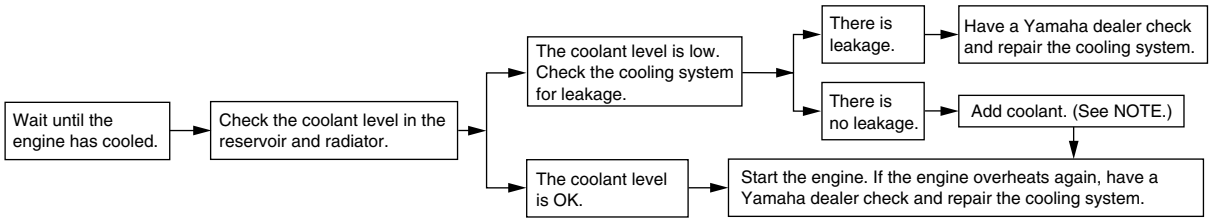
**Removing the radiator cap when the engine and radiator are still hot.**

**WHAT CAN HAPPEN**

**You could be burned by hot fluid and steam blown out under pressure.**

**HOW TO AVOID THE HAZARD**

**Wait for the engine to cool before removing the radiator cap. Always use a thick rag over the cap. Allow any remaining pressure to escape before completely removing the cap.**


Wait until the engine has cooled.
Check the coolant level in the reservoir and radiator.
The coolant level is low. Check the cooling system for leakage.
There is leakage.
Have a Yamaha dealer check and repair the cooling system.
There is no leakage.
Add coolant. (See NOTE.)
The coolant level is OK.
Start the engine. If the engine overheats again, have a Yamaha dealer check and repair the cooling system.

**NOTE:**

If coolant is not available, tap water can be temporarily used instead, provided that it is changed to the recommended coolant as soon as possible.

EBU25860

# CLEANING AND STORAGE

EBU25890

## Cleaning

Frequent, thorough cleaning of your ATV will not only enhance its appearance but will improve its general performance and extend the useful life of many components.

1. Before cleaning the ATV:
   a. Block off the end of the exhaust pipe to prevent water entry. A plastic bag and strong rubber band may be used.
   b. Make sure the spark plug and all filler caps are properly installed.
2. If the engine case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to the chain, sprockets or wheel axles.
3. Rinse the dirt and degreaser off with a garden hose. Use only enough pressure to do the job.

ECB00710

**CAUTION:**

**Excessive water pressure may cause water seepage and deterioration of wheel bearings, brakes, transmission seals and electrical devices. Many expensive repair bills have resulted from improper high-pressure detergent applications such as those available in coin-operated car washers.**

4. Once most of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-reach places.
5. Rinse the ATV off immediately with clean water and dry all surfaces with a chamois, clean towel or soft absorbing cloth.
6. Dry the chain and lubricate it to prevent it from rusting.
7. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
8. Automotive type wax may be applied to all painted and chrome plated surfaces. Avoid combination cleaner-waxes. Many contain abrasives which may mar the paint or protective finish. When finished cleaning, start the engine and let it idle for several minutes.

EWB02300

**⚠ WARNING**

**POTENTIAL HAZARD**

**Operation with wet brakes after washing.**

**WHAT CAN HAPPEN**

**Wet brakes may have reduced stopping ability, increasing the chance of an accident.**

**HOW TO AVOID THE HAZARD**

**Test the brakes after washing. Apply the brakes several times at slow speeds to let friction dry out the linings.**

EBU25932

## Storage

### Short-term

Always store your ATV in a cool, dry place and, if necessary, protect it against dust with a porous cover.

ECB00720

**CAUTION:**

- **Storing the ATV in a poorly ventilated room or covering it with a tarp while it is still wet, will allow water and humidity to seep in and cause rust.**
- **To prevent corrosion, avoid damp cellars, stables (because of the presence of ammonia) and areas where strong chemicals are stored.**

### Long-term

Before storing your ATV for several months:

1. Follow all the instructions in the “Cleaning” section of this chapter.
2. Turn the fuel cock lever to “OFF”.
3. Drain the carburetor float chamber by loosening the drain bolt; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
4. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel from deteriorating.

Specified amount:
7.5 ml of stabilizer to each liter of fuel (or 1 oz of stabilizer to each gallon of fuel)

5. Perform the following steps to protect the cylinder, piston rings, etc. from corrosion.
   a. Remove the spark plug cap and spark plug.
   b. Pour a teaspoonful of engine oil into the spark plug bore.
   c. Install the spark plug cap onto the spark

plug, and then place the spark plug on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)

d. Turn the engine over several times with the starter. (This will coat the cylinder wall with oil.)

e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap.

6. Lubricate all control cables and the pivoting points of all levers and pedals.
7. Check and, if necessary, correct the tire air pressure, and then block up the ATV so that all of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
8. Cover the muffler outlet with a plastic bag to prevent moisture from entering it.
9. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30 °C (90 °F)]. For more information on storing the battery, see page 8-39.

**NOTE:**

Make any necessary repairs before storing the ATV.

EBU25960

# SPECIFICATIONS

EBU2597A

## Dimensions:

Overall length:
1845 mm (72.6 in)
Overall width:
1170 mm (46.1 in)
Overall height:
1130 mm (44.5 in)
Seat height:
815 mm (32.1 in)
Wheelbase:
1280 mm (50.4 in)
Ground clearance:
240 mm (9.4 in)
Minimum turning radius:
3500 mm (138 in)

## Weight:

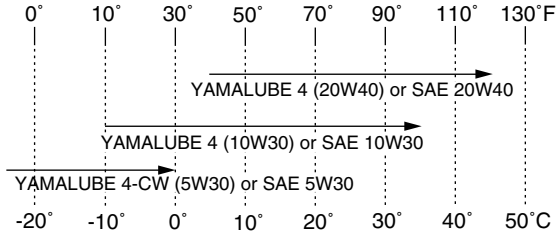
With oil and fuel:
192.0 kg (423 lb)

## Engine:

Engine type:
Liquid cooled 4-stroke, SOHC
Cylinder arrangement:
Forward-inclined single cylinder
Displacement:
686.0 $cm^3$
Bore × stroke:
102.0 × 84.0 mm (4.02 × 3.31 in)
Compression ratio:
9.20 :1
Starting system:
Electric starter
Lubrication system:
Dry sump

## Engine oil:

Type:
YAMALUBE 4, SAE5W30 or SAE10W30 or SAE20W40




Recommended engine oil grade:
API service SG type or higher, JASO standard MA

10

Engine oil quantity:
Without oil filter element replacement:
1.75 L (1.85 US qt) (1.54 Imp.qt)
With oil filter element replacement:
1.85 L (1.96 US qt) (1.63 Imp.qt)

**Cooling system:**

Coolant reservoir capacity (up to the maximum level mark):
0.25 L (0.26 US qt) (0.22 Imp.qt)
Radiator capacity (including all routes):
1.61 L (1.70 US qt) (1.42 Imp.qt)

**Air filter:**

Air filter element:
Wet element

**Fuel:**

Recommended fuel:
Unleaded gasoline only
Fuel tank capacity:
11.0 L (2.91 US gal) (2.42 Imp.gal)
Fuel reserve amount:
2.6 L (0.69 US gal) (0.57 Imp.gal)

10

**Fuel injection:**

Throttle body:
Type/quantity:
44EHS/1
Manufacturer:
MIKUNI

**Spark plug (s):**

Manufacturer/model:
NGK/CR8E
Spark plug gap:
0.7–0.8 mm (0.028–0.031 in)

**Clutch:**

Clutch type:
Wet, multiple-disc

**Transmission:**

Primary reduction system:
Spur gear
Primary reduction ratio:
77/34 (2.265)
Secondary reduction system:
Chain drive
Secondary reduction ratio:
38/14 (2.714)
Transmission type:
Constant mesh 5-speed.forward, 1-speed.reverse
Operation:
Left foot operation
1st:
38/13 (2.923)
2nd:
28/14 (2.000)
3rd:
25/17 (1.471)
4th:
25/22 (1.136)
5th:
22/24 (0.917)

Reverse gear:
24/13 × 29/12 (4.462)

**Chassis:**

Frame type:
Aluminum die-cast and steel tube frame
Caster angle:
5.0 °
Trail:
21.0 mm (0.83 in)

**Front tire:**

Type:
Tubeless
Size:
AT21 x 7-10
Manufacturer/model:
DUNLOP/KT341 Radial

**Rear tire:**

Type:
Tubeless
Size:
AT20 x 10-9
Manufacturer/model:
DUNLOP/KT345 Radial

**Loading:**

Maximum loading limit:
100.0 kg (220 lb)
(Total weight of rider, cargo, accessories, and tongue)

**Tire air pressure (measured on cold tires):**

Recommended:
Front:
27.5 kPa (4.0 psi) (0.275 kgf/cm$^2$)
Rear:
27.5 kPa (4.0 psi) (0.275 kgf/cm$^2$)
Minimum:
Front:
24.5 kPa (3.5 psi) (0.245 kgf/cm$^2$)
Rear:
24.5 kPa (3.5 psi) (0.245 kgf/cm$^2$)
Maximum:
Front:
30.5 kPa (4.4 psi) (0.305 kgf/cm$^2$)
Rear:
30.5 kPa (4.4 psi) (0.305 kgf/cm$^2$)

**Front wheel:**

Wheel type:
Panel wheel
Rim size:
10 x 5.5AT

**Rear wheel:**

Wheel type:
Panel wheel
Rim size:
9 x 8.5AT

**Front brake:**

Type:
Dual disc brake
Operation:
Right hand operation
Recommended fluid:
DOT 4

**Rear brake:**
Type:
Single disc brake
Operation:
Right foot operation
Recommended fluid:
DOT 4

**Front suspension:**
Type:
Double wishbone
Spring/shock absorber type:
Coil spring/gas-oil damper
Wheel travel:
230 mm (9.1 in)

**Rear suspension:**
Type:
Swingarm (link suspension)
Spring/shock absorber type:
Coil spring/gas-oil damper
Wheel travel:
256 mm (10.1 in)

**Electrical system:**
Ignition system:
Transistorized coil ignition (digital)
Charging system:
AC magneto

**Battery:**
Model:
GT9B-4
Voltage, capacity:
12 V, 8.0 Ah

**Headlight:**
Bulb type:
Krypton bulb

**Bulb voltage, wattage x quantity:**
Headlight:
12 V, 30.0/30.0 W × 2
Neutral indicator light:
LED
Fuel level warning light:
LED
Reverse indicator light:
LED
Coolant temperature warning light:
LED
Engine trouble warning light:
LED

**Fuses:**
Main fuse:
20.0 A
Fuel injection system fuse:
10.0 A
Headlight fuse:
15.0 A
Signaling system fuse:
10.0 A
Ignition fuse:
10.0 A

EBU25981

# CONSUMER INFORMATION

EBU26011

## Identification numbers

Record the key identification number, vehicle identification number and model label information in the spaces provided below for assistance when ordering spare parts from a Yamaha dealer or for reference in case the ATV is stolen.

- KEY IDENTIFICATION NUMBER:

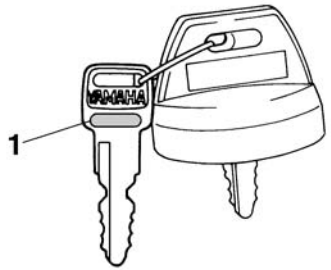
- VEHICLE IDENTIFICATION NUMBER:

- MODEL LABEL INFORMATION:

EBU26020

### Key identification number

The key identification number is stamped into the key. Record this number in the space provided and use it for reference when ordering a new key.

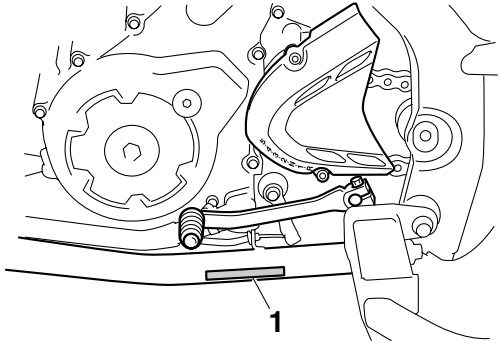



1. Key identification number

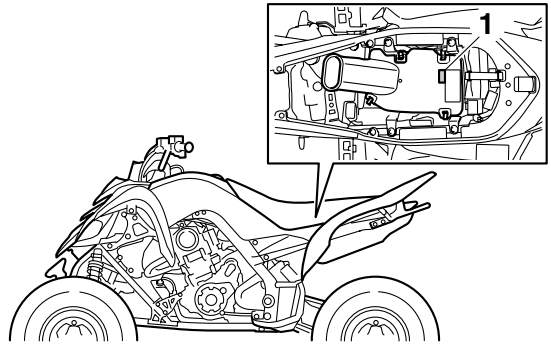
EBU26030

### Vehicle identification number

The vehicle identification number is stamped into the frame.




1. Vehicle identification number




1. Model label

**NOTE:**

The vehicle identification number is used to identify your ATV.

EBU26050

## Model label

The model label is affixed at the location in the illustration. Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

EBU26060

# Noise regulation

**TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED:**

Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

“AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW”. These acts include tampering with the following systems; i.e., modification, removal, etc.

**Exhaust system**

- Muffler
- Exhaust pipe
- Silencer

**Intake system**

- Air cleaner case
- Air cleaner element
- Intake duct

EBU26080

# Maintenance record

Copies of work orders and/or receipts for parts you purchase and install will be required to document maintenance done in accordance with the warranty. The chart below is printed only as a reminder to you that the maintenance work is required. It is not acceptable proof of maintenance work.

| MAINTENANCE INTERVAL | | | DATE OF SERVICE | MILEAGE | SERVICING DEALER NAME AND ADDRESS | REMARKS |
|---|---|---|---|---|---|---|
| month | km (mi) | hours | | | | |
| 1 | 320 (200) | 20 | | | | |
| 3 | 1300 (800) | 80 | | | | |
| 6 | 2500 (1600) | 160 | | | | |
| 12 | 5000 (3200) | 320 | | | | |
| 18 | 7500 (4800) | 480 | | | | |
| 24 | 10000 (6400) | 640 | | | | |
| 30 | 12500 (8000) | 800 | | | | |
| 36 | 15000 (9600) | 960 | | | | |
| 42 | 17500 (11200) | 1120 | | | | |
| 48 | 20000 (12800) | 1280 | | | | |
| 54 | 22500 (14400) | 1440 | | | | |
| 60 | 25000 (16000) | 1600 | | | | |

EBU26501

# YAMAHA MOTOR CORPORATION, U.S.A. ATV LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that new Yamaha ATVs purchased from an authorized Yamaha ATV dealer in the continental United States will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations.

**THE PERIOD OF WARRANTY** for Yamaha ATVs shall be six (6) months from the date of purchase.

**DURING THE PERIOD OF WARRANTY** any authorized Yamaha ATV dealer will, free of charge, repair or replace any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become property of Yamaha Motor Corp. U.S.A.

**GENERAL EXCLUSIONS** from this warranty shall include any failures caused by:

a. Competition or racing use.
b. Installation of parts or accessories that are not qualitatively equivalent to genuine Yamaha parts.
c. Abnormal strain, neglect, or abuse.
d. Lack of proper maintenance.
e. Accident or collision damage.
f. Modification to original parts.
g. Damage due to improper transportation.

**SPECIFIC EXCLUSIONS** from this warranty shall include parts replaced due to normal wear or routine maintenance, such as spark plugs, oil, oil filter, air filter, and brake shoes.

**THE CUSTOMER'S RESPONSIBILITY** under this warranty shall be to:

1. Operate and maintain the ATV as specified in the appropriate owner's manual;
2. Give notice to an authorized Yamaha ATV dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs at such dealer's place of business.

**WARRANTY TRANSFER:** To transfer the warranty from the original purchaser to any subsequent purchaser(s), it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha ATV dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.

**EMISSION CONTROL SYSTEM WARRANTY**

Yamaha Motor Corporation, USA also warrants to the ultimate purchaser and each subsequent purchaser of each 2006 and later model Yamaha ATV covered by this warranty that the vehicle is designed, built, and equipped so as to conform at the time of sale with all U.S. emissions standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the period listed immediately below. Failures other than those resulting from defects in material or workmanship which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this warranty.

**All Models**

Thirty (30) months from the original purchase date

***YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.***

***SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.***

***THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.***

**YAMAHA MOTOR CORPORATION, U.S.A.**
**P.O. Box 6555**
**Cypress, California 90630**

## WARRANTY QUESTIONS AND ANSWERS

Q. What costs are my responsibility during the warranty period?
A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damages, and oil, oil filters, air filters, spark plugs, and brake shoes.

Q. What are some examples of "abnormal" strain, neglect, or abuse?
A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil, sustained high rpm, full-throttle, operating the machine with a broken or damaged part which causes another part to fail, damage or failure due to improper or careless transportation and or tie-down. If you have any specific questions on operation or maintenance, please contact your dealer for advice.

Q. Does the warranty cover incidental costs such as towing or transportation due to a failure?
A. No. The warranty is limited to repair of the machine itself.

Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha ATV dealer.

Q. Will the warranty be void or cancelled if I do not operate or maintain my new ATV exactly as specified in the Owner's Manual?
A. No. The warranty on a new ATV cannot be "voided" or "cancelled." **However, if a particular failure is caused by operation or maintenance other than as described in the Owner's Manual, that failure may not be covered under warranty.**

Q. What responsibility does my dealer have under this warranty?
A. Each Yamaha ATV dealer is expected to:
1. Completely set up every new machine before sale.
2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
3. Each Yamaha ATV dealer is held responsible for his setup, service and warranty repair work.

Q. Is the warranty transferable to second owners?
A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha ATV dealer for the policy to remain effective.

## CUSTOMER SERVICE

If your machine requires warranty service, you must take it to any authorized Yamaha ATV dealer within the continental United States. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write:

YAMAHA MOTOR CORPORATION U.S.A.
CUSTOMER RELATIONS DEPARTMENT
P.O. Box 6555
Cypress, California 90630

When contacting Yamaha Motor Corporation, U.S.A. don't forget to include any important information such as names, addresses, model, V.I.N. (frame number), dates, and receipts.

## CHANGE OF ADDRESS

The federal government requires each manufacturer of a motor vehicle to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.

If you should move after you have purchased your new ATV, please advise us of your new address by sending a postcard listing your ATV model name, V.I.N. (frame number), dealer number (or dealer's name) as it is shown on your warranty card, your name and new mailing address. Mail to:

YAMAHA MOTOR CORPORATION, U.S.A.
P.O. Box 6555
Cypress, California 90630
Attention: Warranty Department

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.

EBU26122
# YAMAHA EXTENDED SERVICE (Y.E.S.)

Keep your Yamaha protected even after your warranty expires with genuine Yamaha Extended Service (Y.E.S.).

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.

- Y. E. S. is flexible. You choose the plan that's right for you: 12 months, 24 months, or 36 months beyond your warranty period.

- Y.E.S. is designed and administered by the same Yamaha people who handle your warranty – and it shows in the comprehensive coverage benefits. There are no mileage limitations. Coverage isn't limited to "moving parts" or the "drive train" like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factory-backed protection can be.

- You don't have to pay anything for covered repairs. There's no deductible to pay, and repairs aren't "pro-rated." You don't have any "out-of-pocket" expenses for covered repairs.

- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to $150 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.

- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.

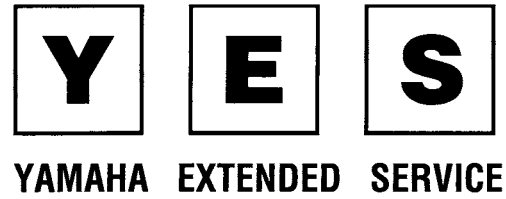
- Y.E.S. coverage is transferable to a new owner if you sell or trade in your ATV. That can make your Yamaha much more valuable!

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. He can show you how easy it is to protect your investment with Yamaha Extended Service.

We urge you to act now. You'll get the excellent benefits of TRIP coverage right away, and you'll rest easy knowing you'll have strong factory-backed protection even after your Yamaha Limited Warranty expires. You can also save money: Y.E.S. costs less within the first 90 days after you buy your Yamaha. See your dealer today!

A special note:
If visiting your dealer isn't convenient, contact Yamaha with your Primary ID number (your frame number). We'll be happy to help you get the Y.E.S. coverage you need.

Yamaha Service Marketing
P.O. Box 6555
Cypress, CA 90630






**⚠ WARNING**

**Indicates a potential hazard that could result in serious injury or death.**

# PROTECT YOUR INVESTMENT
# Use Genuine YAMAHA Parts and Accessories

*See your Authorized YAMAHA Dealer for a Genuine YAMAHA Service Manual.*

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EBU26141

## ⚠ WARNING

**Improper ATV use can result in SEVERE INJURY or DEATH.**

**ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR**

**NEVER USE ON PUBLIC ROADS**

**NEVER CARRY PASSENGERS**

**NEVER USE WITH DRUGS OR ALCOHOL**

**NEVER operate:**

- without proper training or instruction.
- at speeds too fast for your skills or the conditions.
- on public roads-a collision can occur with another vehicle.
- with a passenger-passengers affect balance and steering and increase risk of losing control.

**ALWAYS:**

- use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- avoid paved surfaces-pavement may seriously affect handling and control.

**LOCATE AND READ OWNER'S MANUAL. FOLLOW ALL INSTRUCTIONS AND WARNINGS.**
**(For replacement manual, call 1-800-532-1558)**

YAMAHA

YAMAHA MOTOR CO., LTD.

PRINTED ON RECYCLED PAPER

PRINTED IN JAPAN
2007.04-1.6x1
(E)

Dear Yamaha ATV Owner: Please Review this IMPORTANT SAFETY CARD before operating your ATV (If card is not attached, call 1-800-344-6418).

Dear New Yamaha ATV Owner:

CONGRATULATIONS ON THE PURCHASE OF YOUR NEW YAMAHA ATV. You have purchased a quality Yamaha product that, with proper use and care, will provide hours of riding pleasure. **BEFORE YOU OPERATE YOUR NEW ATV, Yamaha recommends these important points:**

- READ YOUR OWNER'S MANUAL
- A CHILD UNDER 6 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE 50CC OR GREATER
- A CHILD UNDER 12 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE 70CC OR GREATER
- A CHILD UNDER 16 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE GREATER THAN 90CC
- TAKE THE FREE HANDS-ON TRAINING COURSE OFFERED BY YAMAHA – ASK YOUR DEALER FOR DETAILS OR CALL 1-800-887-2887

If you have any questions about these points, **or if you purchased your ATV from an authorized Yamaha dealership and were not informed of the age recommendation for your ATV by the dealership,** please fill out the information below and mail this card to yamaha **today.**

Name:

Address:

Telephone:
( )

ATV Model:

Purchase Date:
MO. DAY YR.

Primary I.D. (Engine Number):
—

Dealer Name & Address:

This is not a warranty card

READ CAREFULLY

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 4 CYPRESS, CA

POSTAGE WILL BE PAID BY ADDRESSEE

**YAMAHA MOTOR CORPORATION U.S.A.**
**P.O. BOX 6555**
**CYPRESS, CALIFORNIA 90630-9989**

ATTN: SALES ADMINISTRATION